

Trixie

105

part 2

chlorhexidine  
Sivradene  
✓ Quick stop X

Notes:  
SQ midazolam not  
working well  
next time burrito +  
do IN only @ 0.6 mg/kg

## Rabbit- Trixie #105

- Date 01/11/2021, DOB 05/07/2014, Age 6.5 years old, FI
- Last sedation- 11/16/2020
- Weight 4.78 kg
- Procedure= Sedation for recheck/ cysto if possible/ bloodwork if possible

☐ Midazolam 1 mg/kg SQ x 4.7 kg = 4.7 mg

☐ 4.7 mg x 1 mg/ml = 4.7 mls

☐ 4.2 mls at 10:09 AM

☐ OR 0.9 mg/kg x 4.7 kg = 4.2 mg = 4.2 mls

• Reversal Flumazenil 0.05- 0.1 mg/kg SQ IM

☐ Flumazenil 0.1 mg/kg x 4.7 kg = 0.47 mg

☐ 0.47 mg x 1 ml/0.1 mg = 4.7 mls

☐ 4.7 mls at 11:30 AM

☐ 0.09 = 4.2 mls

Exam 11/16/20 ; Trixie- Thin fur on feet, dirty tail w/ mats

- LH- 6 mm alopecia and 3 cm x 2 mm alopecia at lateral side foot
- RH- 6 mm diameter and 3 cm x 2 mm alopecia

• EXAM 01/11/2021-

- Left hind
- Right hind-  
+ 3 calcs

Same ↑

☐ Saline= 100 mls/ kg/ day approx

☐ 100 mls x 4.72 kg = 475 mls

saline at \_\_\_\_\_

☐ Notes= previous sedation 0.6 SQ + 0.025 IN mg/kg-  
not sedate, try 0.9 - 1 mg/kg SQ. Iso?

0.1 ml IN @ 11:03 AM Box 30 10:55 AM → still sl awake

11:36 off → woke up fast

12:48 in cage

☐ Cysto? unable - too small → attempt ~~the~~ success

☐ CBC/Chem? Chem X

☒ Nails trimmed?

☒ Map feet and vulva lesion? Feet same  
No vulva lesions

☒ Recheck when? ? weight ↓

☐ Log midazolam

my  
notes  
10:22 10:33 awake  
10:44  
Quiet  
but  
rounder



Trixie Rabbit 105

Notes on supplies

$\boxed{1.5}$   
11/2 4.78  
12/7 4.82  
12/21 4.72  
12/28 4.77  
1/4 4.78 kg

Gentacin oph drops  
Flurbiprofen for ears

Supplies needed for tomorrow, weekend and Monday

1. Critical care, lots
2. Sign for how to make up Critical Care slurry- ATTACHED
3. Small paper plates- many
4. Syringes- 3 and 6 ml, at least 10 of each for weekend and to keep in suite to make up critical care
5. Small bowl to mix up the Critical Care and rinse out daily
6. Treatment sheet for monitoring- I will write this tomorrow
7. Anesthesia machine set up and ready and the induction box clean and ready for Monday
8. Artificial tears for Monday
9. 1.5" long 22 ga needles, 6 of them for Monday
10. Urine collection tube- these should be yellow top tubes, or a regular red top without any clot gel should work for Monday
11. Urine culture tube- I think these are labelled, maybe in 5th procedures? for Monday
12. I will write up the submission form for the urine tomorrow and send to [redacted] and [redacted] for Monday
13. Someone please email me Trixie's weight this week - for Friday
14. Silvadene for the skin near vagina- for Friday

Exam 1/08/2021

1. Decide on Silvadene and meloxicam
2. Palpate ✓ no chills no
3. Check eye bladder issues

metacam  
4.8 mg x 0.5 mg/kg  
= 2.4 mg  
= 2.4 mg x

spay 5d metacam  
metacam 1.5 mg/ml  
Rabbit meloxicam 0.5 mg/kg  
1.5 mg 0.3 = 0.5 mg/kg  
0.5 - 1 mg/kg PO SA  
0.5 - 1 mg/kg

Baytril 10 mg/kg 1 day tabs  
Orbax 20 mg/kg S.O  
Gentamicin 22.7 mg/ml

Bay- liquid  
1. orbax -  
2. Gentamicin oph  
3. Baytril 65 mg tabs

10 x 4.8  
50 mg  
↓  
1 ml - 22.7  
22.7  
2 ml 1 day

# Rabbit- Trixie #105

• Date 11/19/20

• Weight 4.72 kg

• Procedure= Sedation for recheck clip nails

• ~~Midazolam 0.5 mg/kg IN SQ~~ *0.025 mg/kg + 0.05 IN*

☐ Midazolam 0.5 mg/kg x 4.72 kg = 2.4 mg

☐ 2.4 mg x 1 mg/ml = 2.4 mls *2.8 ml*

☐ 2.4 mls at 2.8 ml SQ at 1:18 pm *SS ⊕*

• **Reversal (midazolam) Flumazenil at 0.05 to 0.1 mg/kg SQ IM**

☐ Flumazenil 0.1 mg/kg x 4.72 kg = 0.47 mg

☐ 0.47 mg x 1 ml/ 0.1 mg = 4.7 mls

☐ 4.7 mls at \_\_\_\_\_

• Exam 10/19/20; Trixie- Thin, clean furred feet

• Left hind - 6 mm diameter of alopecia and small 2 mm diameter alopecic area with scab at the lateral side of the foot, this was new. Small rectangular area of thin fur

• Right hind - 6 mm diameter and 1 mm circular alopecic area The fur was clean, but thin.

*LH 6mm 3cm x 2mm*

*RH 6mm 3cm x 2mm*

*dirty tail*

• **Doses**

**TIME**

☐ Saline= 100 mls/ kg/ day approx

☐ 100 mls x 4.72 kg = 475 mls

saline at \_\_\_\_\_

☐ Notes

*Isophen at 1:30 pm  
off 1:51 pm  
mate at tail*

☒ Nails trimmed?

☒ Map lesions?

☐ Recheck when? *March - May*

☐ Log midazolam

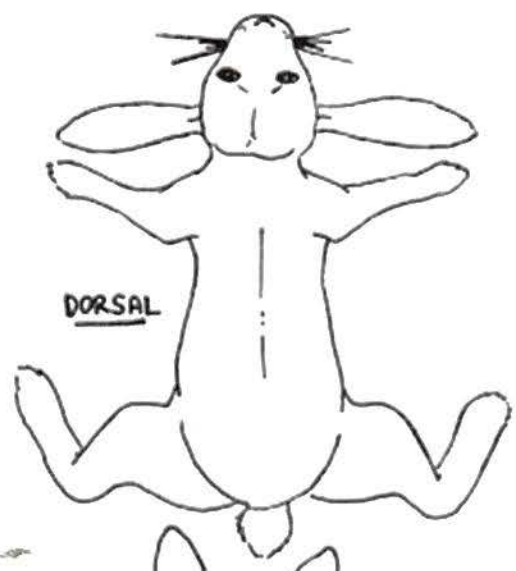
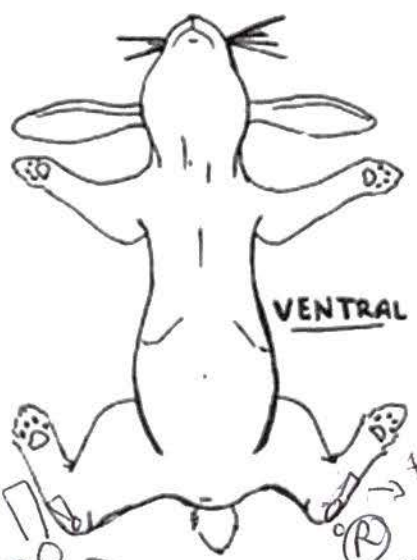
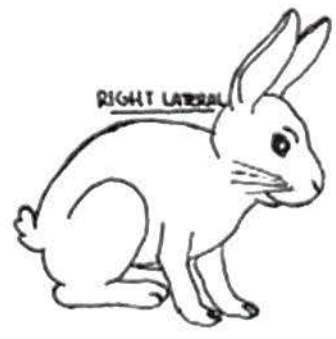
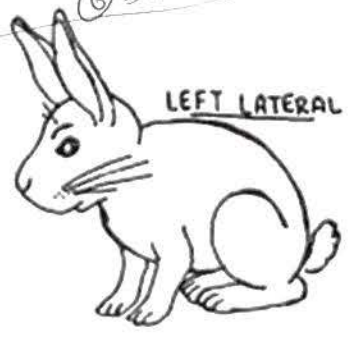
*2.8 ml SQ ⊕*

*0.1 ml IN ⊕*

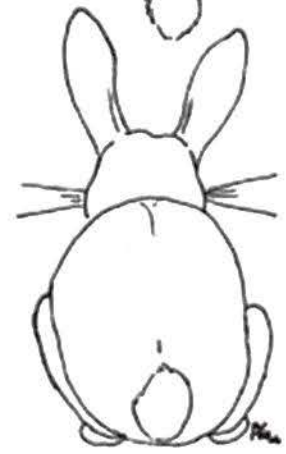
Thursdays

Trixie 10/19/2020 Mon

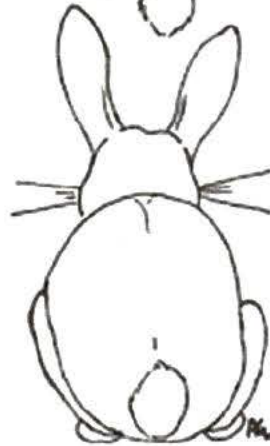
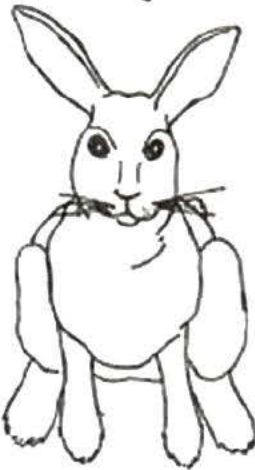
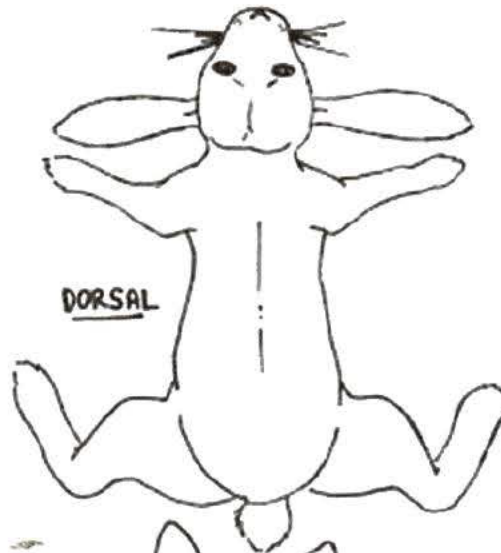
4cm  
2mm  
LH 8mm  
RH 6mm  
6mm



thin fur  
6mm  
+ 2mm  
scab  
side  
thin fur  
6mm  
1mm  
no scab



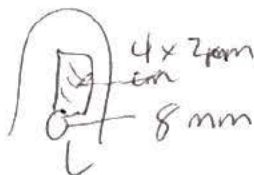
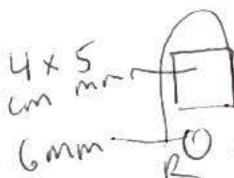
TRINE 8/26 WEP



Metrol Animal Clinic, Inc. 420 Uluru Street, Kailua, HI 96734 808-262-9621

TRIXIE 8/26/2020 4.76 kg

Last ✓ = 5/13/20  
 Tail base mats - ok



→ about same L pink (A) → per 1-2 months



TRIXIE

WED  
8/26

8/25/2020

# RABBIT SEDATION AND ANESTHESIA

- Date 8/25/2020
- Rabbit name TRIXIE
- Rabbit # 4
- Weight 4.76 kg
- Procedure clip / clean / rev / nails
- Options:
  - Midazolam 0.2- 0.5 mg/kg (max 1 mg/kg for profound sedation) with Buprenorphine 0.01- 0.05 mg/kg
  - Buprenorphine by itself 0.01- 0.05 mg/kg
  - Midazolam and buprenorphine and ketamine (ket at 2 mg/kg- 5 mg/kg)
  - Reversal (midazolam) Flumazenil at 0.05 to 0.1 mg/kg SQ IM IV
- Start at Midazolam 0.25 mg/kg and Buprenorphine 0.02 mg/kg
- VIN rabbit sedation- start at Midazolam 0.3 mg/kg and buprenorphine 0.03 mg/kg
  - Reversal- Flumazenil        mg/kg x        kg =        mg
  - mg x 1 ml / 0.1 mg =        mls

Clip

clean

✓ nails

Rev / MAP

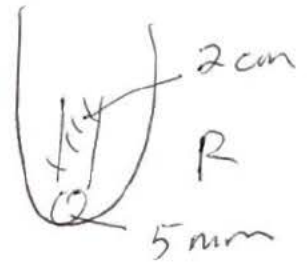
8/25/20  
Plan-

LH pink alopecia  
rev 1-2 months  
few mats back  
rectangular area hair loss

about  
same.

- Doses**
- TIME**
- ☐ Midazolam 0.1 mg/kg x        kg =        mg
- ☐        mg x 1 mg/ml =        ml AT
- ☐ Midazolam 0.2 mg/kg x        kg =        mg
- ☐        mg x 1 mg/ml =        ml AT
- ☐ Midazolam 0.3 mg/kg x        kg =        mg
- ☐        mg x 1 mg/ml =        ml AT
- ☐ Buprenorphine 0.01 mg/kg x 4.76 kg = 0.05 mg
- ☐ 0.05 mg x 1 ml / 0.3 mg = 0.16 ml AT
- ☐ Buprenorphine 0.02 mg/kg x 4.76 kg = 0.10 mg
- ☐ 0.10 mg x 1 ml / 0.3 mg = 0.32 ml AT
- ☐ Buprenorphine 0.03 mg/kg x 4.76 kg = 0.14 mg
- ☐ 0.14 mg x 1 ml / 0.3 mg = 0.48 ml AT
- ☐ Ketamine        mg/kg x        kg =        mg
- ☐        mg x 1 ml / 100 mg =        ml AT
- ☐ Isoflurane at
- ☐ Saline = 100 mls / kg / day approx
- ☐ 100 mls x 4.76 kg = 476 mls saline
- at Admin 150-250 ml SQ

Tex



dirty!  
alopecia  
need rev 1-2  
months



## Jarrell, Leslie

---

**From:** Jarrell, Leslie  
**Sent:** Thursday, February 20, 2020 3:02 PM  
**To:** [REDACTED]  
**Cc:** Graff, Jaimie; [REDACTED]  
**Subject:** RE: Rabbits - Updates from Feb 20 2020

Trixie 105

Hi all,

Here are some updates on rabbit feet!

- Tex # 101
  - Weight 08/09/18= 4.10 kg, 07/19/18 = 4.16 kg, 4/11/19= 4.18 kg, 5/6/19 = 4.16 kg, Weight 11/18/19= 4.20 kg, Weight 2/20/2020= 4.10 kg.
    - Suspect dental disease, will continue to monitor.
    - 5/19= Mild to moderate Pododermatitis- Left and right hind feet have alopecia on plantar surface and alopecia area around 6 mm at point of hock, Some mats inguinal
  - Mild pododermatitis
    - 9/26/19= Medium amount of fur, dirty feet, pencil sized areas of alopecia at both point of hocks and rectangular area alopecia adjacent
    - 11/22/19= Mild alopecia about size of pencil eraser, no scabs, both hind feet, with small rectangular areas on pedal surface of both hind feet
    - 02/20/2020= Mild pododermatitis, hocks with rectangular area of very mild alopecia bilaterally, left hind has small scab on pencil eraser size alopecia at point of hock, feet furry and clean
  - Recheck- early to mid- March
- Leo #102
  - Weight 08/09/18= 4.10 kg, weight 07/19/18= 4.22 kg, weight 4/12/19= 4.02 kg, weight 11/25/19= 4.02 kg, Weight 02/18/2020= 3.90 kg.
  - Mild pododermatitis
    - 5/23/19= Much cleaner. Both hind feet clean and furred, alopecia remains, no scabs
    - 9/26/19- well furred feet, clean, thin fur on left hind, Very mild pododermatitis
    - 11/25/19= Well furred on both feet, both feet clean, tiny spots of alopecia on points of hock only
    - 02/20/2020= Alopecia, very mild, rectangular shape near point of hock, both feet
  - Mats on left hip and near tail- clip next week
  - Concern re dental disease.
  - Recheck March- April 2020
- Jasper #104
  - Weight 08/09/18= 3.86 kg, weight 07/19/18 = 3.98 kg, weight 4/5/19 = 3.72 kg, Weight 3.66 kg, Weight 2/13/2020= 3.70 kg, 02/18/2020= 3.78 kg.
  - Mild pododermatitis,
  - 5/19= Fur on feet is clean and fluffy
    - Left hind alopecia about 3 mm diameter on point of hock
    - Right hind alopecia around 6 mm diameter at point of hock
    - 9/26/19= well furred clean feet, tiny alopecia area point of both hocks
    - 11/25/19= Very well furred, and clean, both feet, 1 small spot of alopecia on left hind foot
    - 02/13/2020= Both hind feet very clean and well furred, right hock small pencil eraser sized alopecia, barely visible
  - Recheck end March- end April

- Trixie #105
  - Weight 08/09/18= 4.90 kg, weight 07/19/18= 4.66 kg, weight 4/11/19= 4.92 kg, 11/22/19 weight=, Weight 2/13/2020= 4.80 kg, 2/18/2020= 4.78 kg.
  - Mild – moderate pododermatitis
    - 5/23/19= Mats at tail, clipped. Left hind foot- fur is clean but thin, 3 mm alopecia area, right hind foot- fairly clean fur, small scab at point of hock, alopecia area larger than pencil eraser
    - 9/26/19- left hind has small amount alopecia and small scab at point of hock, right hind clean, mild alopecia
    - 11/22/19= Left hind foot furred, no alopecia, right hind foot has pink area of alopecia, no scabs
    - 02/13/2020= Fur is thin over a rectangle area on R hock. Pencil eraser size alopecia at both hocks. Fur is clean. Few small mats near tail. Clip mats next week.
  - Recheck March- April 2020
- Daisy #108
  - Weight 08/09/18= 4.22 kg, weight 7/19/18= 4.28 kg, Weight 4/5/19= 4.04 kg, Weight 11/25/19= 3.74 kg, Weight 2/13/2020= 3.80 kg, Weight 2/18/2020= 3.80 kg.
  - Mild pododermatitis
    - Feet are clean and well furred, mild alopecia size of pencil eraser, no scabs, at point of hock
    - 11/25/19= Hind feet both well furred and clean, mild pink alopecia on both points of hocks
    - 2/13/2020= Hind feet both well furred and clean, mild pink alopecia both points of hocks, smaller than pencil eraser
  - Recheck in March- April
  - Monitor weight.
- Wyatt Earp # 109
  - Weight 4/5/19= 3.36 kg, Weight= 11/22/19= 3.62 kg, Weight 02/18/2020= 3.70 kg
  - Mild pododermatitis
    - 5/19- Both hind feet have 3- 5 mm diameter circular alopecia lesions at points of hock
    - No scabs
    - 9/26/19- Left hind foot fur is dirty, mild alopecia less than diameter of pencil eraser both sides
    - 11/22/19= Very dirty fur on both feet, few mats rear legs and tail
    - 02/20/2020= Well furred and clean both hind feet, slight alopecia only over rectangular area on both hocks, superficial mats on right lateral knee and foot, clip next week
  - Increase exercise and time in pen
  - 12/19/19- isoflurane and oxygen anesthesia for clipping mats on tail base and rear legs
  - Recheck April
- Doc Holliday # 110
  - Weight 4/5/19= 3.20 kg, weight 11/22/19= 3.5 kg, Weight 3/18/2020= 3.64 kg.
  - Nervous- unable to check feet previously.
  - Continue- work on socializing to handling and exam
  - 11/22/19= finally able to check his feet for the first time! Great job! Right hind foot slightly pink, but well furred
  - 02/20/2020- Well furred, brief look only, but doing well with exam! Good job! Few mats on tail. May need to anesthetize to clip mats.
  - Recheck next week for mats and recheck feet March- April.
- Johnny Ringo #111
  - Weight 4/5/19= 3.32 kg, Weight 11/25/19= 3.54 kg, Weight 2/13/2020= 3.34 kg, Weight 2/18/2020= 3.50 kg.
  - Very mild pododermatitis
    - Both hind feet have circular alopecia at point of hock, around 3-4 mm diameter



- 9/26/19- look great
- 11/25/19= Very well furred on both feet, was good with exam
- 2/13/2020= unable to examine feet.
- 2/20/2020= Unable to examine feet. Super nervous. Mats around tail base and under tail. Need to anesthetize to clip mats, and then work on handling more.
- Clip mats next week under anesthesia, recheck feet 1 month- 2 months.

## • Recommendations

- Exercise pen;
  - All rabbits need 4+ hours in exercise pen, and 2 rotations per week
  - **For the exercise room, only use the irradiated hay from Bio-Serv**

## • Rabbit feed

- Completely discontinue all Kaytee brand hay
- Use only Oxbow hay in the housing room
  - Please, if all hay could be ordered online, that would be best case scenario
- All rabbits should have unlimited grass hay= timothy, orchard grass, meadow grass

Thanks very much,  
Leslie

**From:** Jarrell, Leslie

**Sent:** Friday, December 27, 2019 1:04 PM

**To:** [REDACTED]

**Cc:** Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]

**Subject:** RE: Rabbits - Updates from Nov 25 2019 and Dec 19 2019

Hi all,  
We did several rechecks in between too.

### • Tex # 101

- Weight 08/09/18= 4.10 kg, 07/19/18 = 4.16 kg, 4/11/19= 4.18 kg, 5/6/19 = 4.16 kg, Weight 11/18/19= 4.20 kg.
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  - 5/19= Mild to moderate Pododermatitis
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- 11/22/19= Mild alopecia about size of pencil eraser, no scabs, both hind feet, with small rectangular areas on pedal surface of both hind feet
- Recheck- early January

### • Leo #102

- Weight 08/09/18= 4.10 kg, weight 07/19/18= 4.22 kg, weight 4/12/19= 4.02 kg, weight 11/25/19= 4.02 kg
- Mild pododermatitis



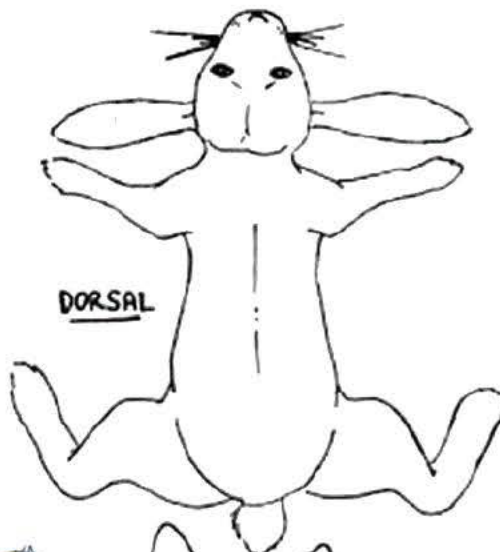
LEFT LATERAL



RIGHT LATERAL



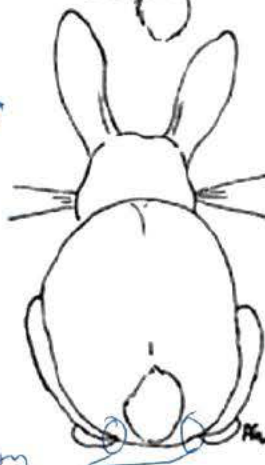
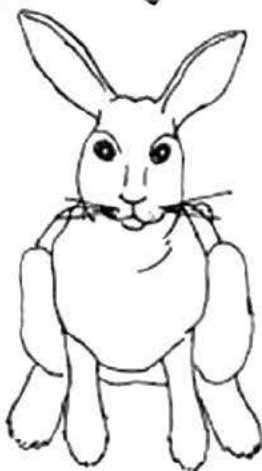
VENTRAL



DORSAL

fur is thin  
 (P) in rectal area  
 O alopecia  
 perianal area

clear  
 fur  
 rectal area  
 O alopecia  
 at perianal  
 area



dry  
 fur

2/25/2020  
☒ Red - no  
 obvious mat.  
 Red (March-  
 April-May)

Marek Animal Clinic, Inc. 420 Ulukou Street, Kailua, HI 96734 808-262-5621

105 Trixie 2/13/20  
 clip few mats ?

#105  
 wt = 4.80 kg

2/18/2020 - 4.78kg

Trixie 105

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---

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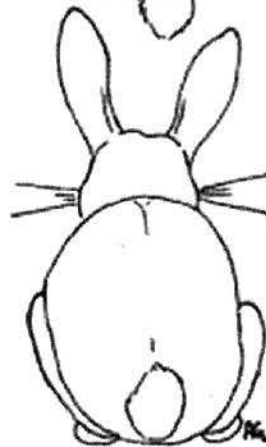
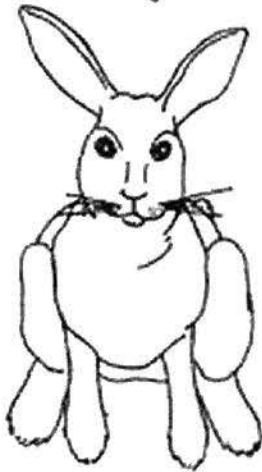
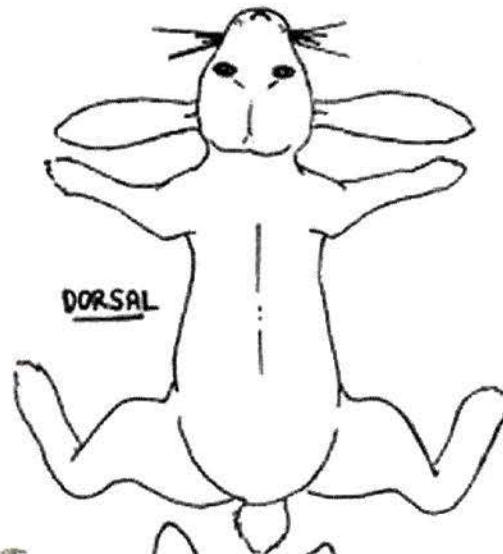
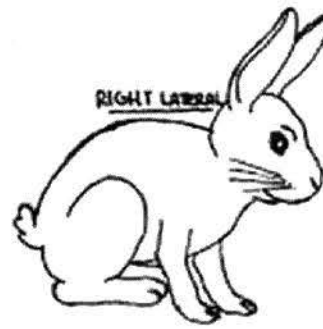
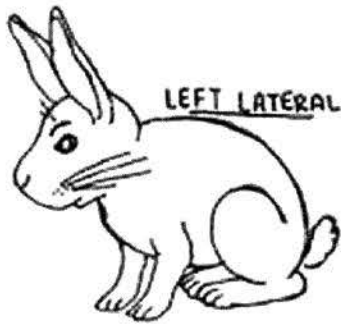
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  - Recheck- early January
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    - 9/26/19- well furred feet, clean, thin fur on left hind
  - Very mild pododermatitis now
  - 11/25/19= Well furred on both feet, both feet clean, tiny spots of alopecia on points of hock only.
  - Recheck end of January
- Jasper #104
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    - 5/19- Both hind feet have 3- 5 mm diameter circular alopecia lesions at points of hock
    - No scabs
    - 9/26/19- Left hind foot fur is dirty, mild alopecia less than diameter of pencil eraser both sides
    - 11/22/19= Very dirty fur on both feet, few mats rear legs and tail
  - Increase exercise and time in pen
  - 12/19/19- isoflurane and oxygen anesthesia for clipping mats on tail base and rear legs
  - Recheck early January
- Doc Holliday # 110
  - Weight 4/5/19= 3.20 kg, weight 11/22/19= 3.5 kg
  - Nervous- unable to check feet previously.
  - Continue- work on socializing to handling and exam
  - 11/22/19= finally able to check his feet for the first time! Great job! Right hind foot slightly pink, but well furred
  - Recheck early January
- Johnny Ringo #111
  - Weight 4/5/19= 3.32 kg, Weight 11/25/19= 3.54 kg
  - Very mild pododermatitis
    - Both hind feet have circular alopecia at point of hock, around 3-4 mm diameter
  - 9/26/19- look great
  - 11/25/19= Very well furred on both feet, was good with exam
  - Recheck end of January
- **Recommendations**
  - Exercise pen;
    - All rabbits need 4+ hours in exercise pen, and 2 rotations per week
    - **For the exercise room, only use the irradiated hay from Bio-Serv**
- **Rabbit feed**
  - Completely discontinue all Kaytee brand hay
  - Use **only Oxbow hay** in the housing room
    - Please, if all hay could be ordered online, that would be best case scenario
  - All rabbits should have **unlimited** grass hay= timothy, orchard grass, meadow grass





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Trixie # 105

11/22/19 Brief ✓

mild (R) hind foot alopecia +  
pink, no  
scabs

Rev 1 month

## Jarrell, Leslie

---

**From:** Jarrell, Leslie  
**Sent:** Friday, October 18, 2019 1:17 PM  
**To:** [REDACTED]  
**Cc:** Grant, Jaimie [REDACTED]  
**Subject:** RE: Rabbits - Updates from Sept 26 2019  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi all,

We did several rechecks in between. Here are the latest rechecks. Will need to do a few rechecks early- mid Nov/ Dec.

- Tex # 101
  - Weight 08/09/18= 4.10 kg, 07/19/18 = 4.16 kg, 4/11/19= 4.18 kg, 5/6/19 = 4.16 kg.
    - I had suspected some dental disease, will continue to monitor.
    - 5/19= Mild to moderate Pododermatitis
      - Left and right hind feet have alopecia on plantar surface and alopecia area around 6 mm at point of hock
    - Some mats inguinal
  - 9/26/19= Medium amount of fur, dirty feet, pencil sized areas of alopecia at both point of hocks and rectangular area alopecia adjacent
  - Recheck late Oct- early Nov
- Leo #102
  - Weight 08/09/18= 4.10 kg, weight 07/19/18= 4.22 kg, weight 4/12/19= 4.02 kg
  - Mild pododermatitis
    - 5/23/19= Much cleaner. Both hind feet clean and furred, alopecia remains, no scabs
    - 9/26/19- well furred feet, clean, thin fur on left hind
  - Recheck end Nov
- Jasper #104
  - Weight 08/09/18= 3.86 kg, weight 07/19/18 = 3.98 kg, weight 4/5/19 = 3.72 kg
  - Mild pododermatitis,
  - 5/19= Fur on feet is clean and fluffy
    - Left hind alopecia about 3 mm diameter on point of hock
    - Right hind alopecia around 6 mm diameter at point of hock
  - 9/26/19= well furred clean feet, tiny alopecia area point of both hocks
  - Recheck Nov- Dec
- Trixie #105
  - Weight 08/09/18= 4.90 kg, weight 07/19/18= 4.66 kg, weight 4/11/19= 4.92 kg
  - Mild – moderate pododermatitis
    - 5/23/19= Mats at tail, clipped. Left hind foot- fur is clean but thin, 3 mm alopecia area, right hind foot- fairly clean fur, small scab at point of hock, alopecia area larger than pencil eraser
    - 9/26/19- left hind has small amount alopecia and small scab at point of hock, right hind clean, mild alopecia
  - Recheck mid- end Nov
- Daisy #108

- Weight 08/09/18= 4.22 kg, weight 7/19/18= 4.28 kg, Weight 4/5/19= 4.04 kg
- Mild pododermatitis
  - Feet are clean and well furred, mild alopecia size of pencil eraser, no scabs, at point of hock
- Recheck in end Nov
- Wyatt Earp # 109
  - Weight 4/5/19= 3.36 kg
  - Mild pododermatitis
    - 5/19- Both hind feet have 3- 5 mm diameter circular alopecia lesions at points of hock
    - No scabs
    - 9/26/19- Left hind foot fur is dirty, mild alopecia less than diameter of pencil erase both sides.
  - Increase exercise and time in pen
  - Bathe well , especially left hind foot
  - Recheck Nov
- Doc Holliday # 110
  - Weight 4/5/19= 3.20 kg
  - Nervous- unable to check feet.
  - Continue- work on socializing to handling and exam
  - Recheck end Oct- mid Nov
- Johnny Ringo #111
  - Weight 4/5/19= 3.32 kg
  - Very mild pododermatitis
    - Both hind feet have circular alopecia at point of hock, around 3-4 mm diameter
  - 9/26/19- look great
  - Recheck Nov/ Dec.
- **Recommendations**
  - When the exercise pen is back up and running;
    - All rabbits need 4+ hours in exercise pen, and 2 rotations per week
    - **For the exercise room, only use the irradiated hay from Bio-Serv**
- **Rabbit feed**
  - Completely discontinue all Kaytee brand hay
  - Use only Oxbow hay in the housing room
    - Please, if all hay could be ordered online, that would be best case scenario
  - All rabbits should have unlimited grass hay= timothy, orchard grass, meadow grass

Thanks very much,  
Leslie

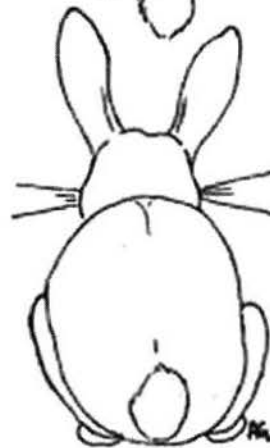
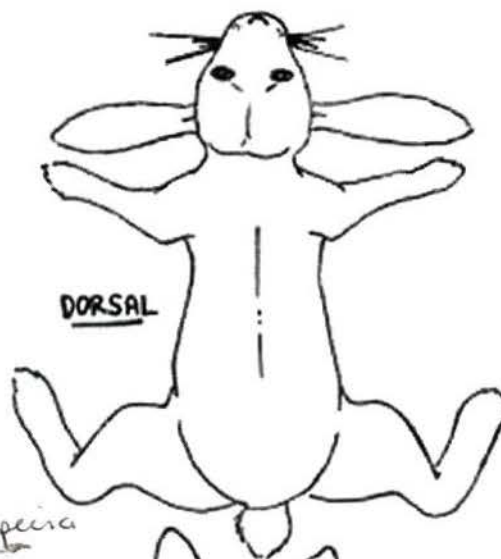
From: Jarrell, Leslie

Sent: Thursday, May 23, 2019 2:17 PM

To:

Cc: ; Graff, Jaimie <Graff.Jaimie@epa.gov>;

*Trixie  
#105*

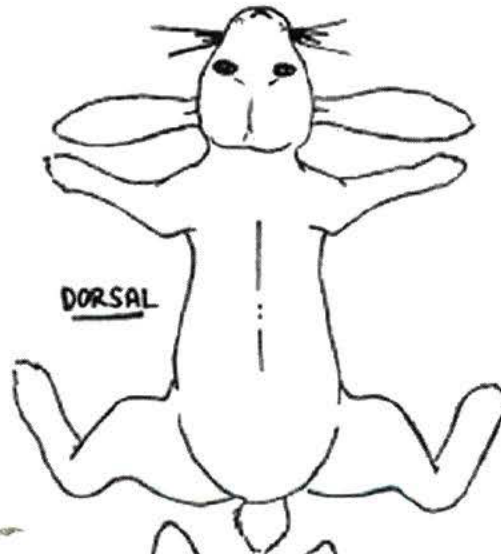
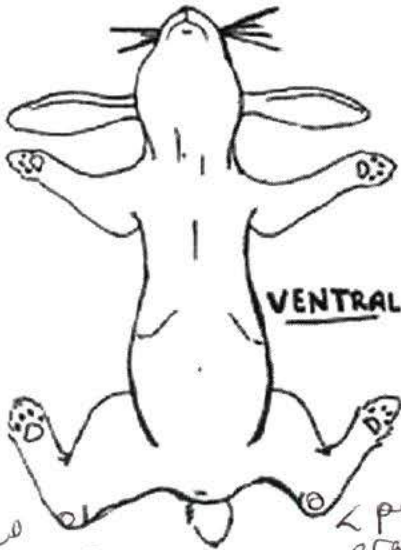
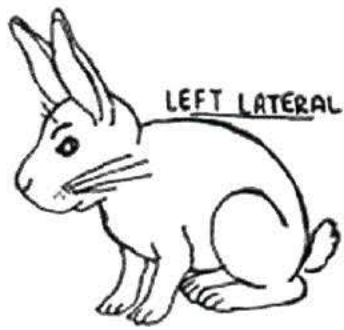


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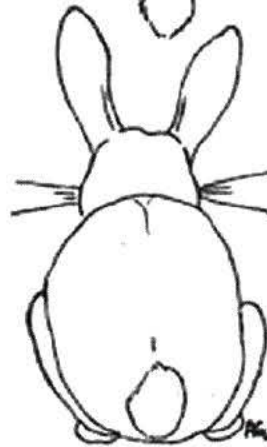
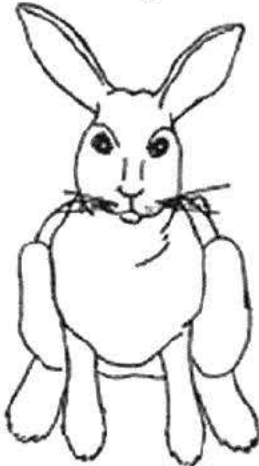
*Trixie #105 8/8/19  
rev < pencil eraser both hocks + clean*

- improved but (R) hind fur feet dirty
- Rev ~ 1-2 months ~ 9/1 - 9/30





< penis  
 erase  
 well  
 front  
 clear



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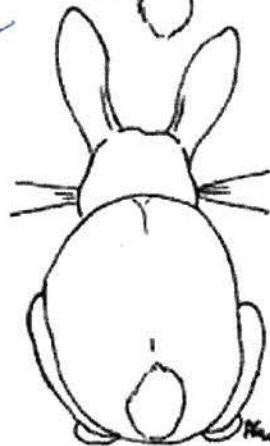
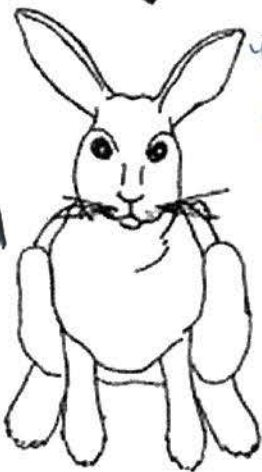
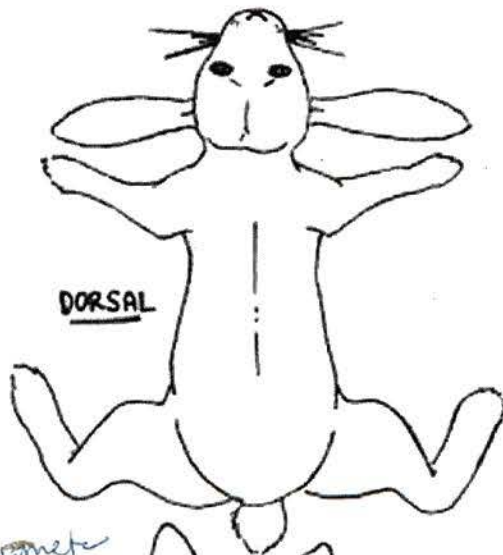
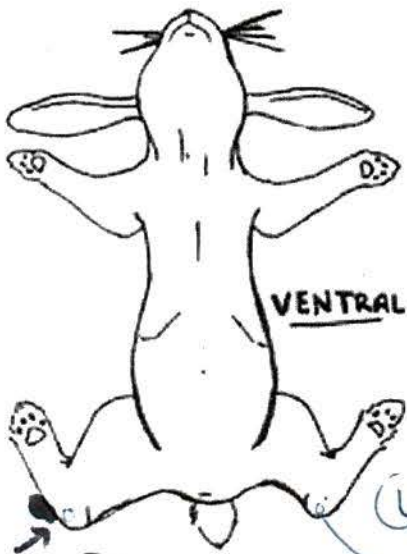
*Trixie #105*

*6/27/19*

*Rev*

*7/2/19*

*rev 1 - 2 months*



R  
erythema  
alopecia  
lateral side  
+ point of  
heel = patchy  
alopecia  
~1 cm

4-5 mm diameter  
alopecia  
fur fluffing  
clear

Mistral Animal Clinic, Inc. 420 Ulukou Street, Kailua, HI 96734 808-262-9621

Trixie 6/14/19 feet red  
#105  
red end Tunnel  
beg July



## Jarrell, Leslie

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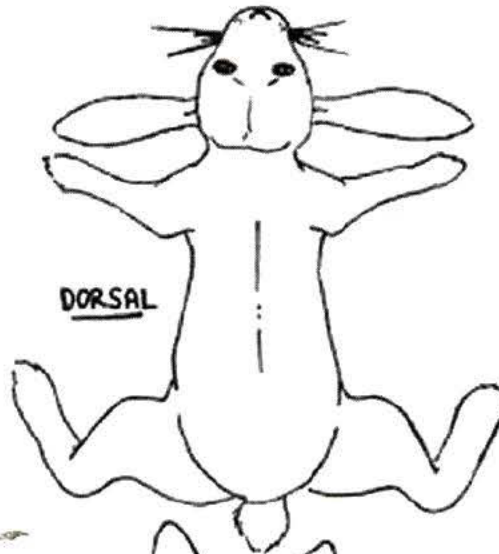
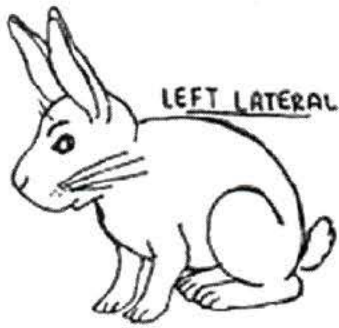
**From:** Jarrell, Leslie  
**Sent:** Thursday, May 23, 2019 2:17 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie  
**Subject:** RE: Rabbits - Updates from April 19 2019  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi all,  
Rabbit notes! Exams were April 5 and 12, and 2 rechecks today on Leo and Trixie. A few others will get rechecks in the next few weeks.

- Dixie # 106
  - Weight 8/10/18= 4.70 kg, 07/19/18= 4.66 kg, Weight 4/11/19= 4.80 kg
  - Mild Pododermatitis
    - Left hind foot= fur loss on plantar surface, pencil eraser size circular alopecia, no scabs
    - Right hind foot, alopecia on plantar surface, larger than pencil eraser size circular alopecia on point of hock, no scabs
  - Recheck June
  - Exercise pen when available
  - Increase timothy hay
- Leo #102
  - Weight 08/09/18= 4.10 kg, weight 07/19/18= 4.22 kg, weight 4/12/19= 4.02 kg
  - Mild pododermatitis
    - 4/12/19= Dirty fur on both hind feet, approx. 2 mm diameter alopecia areas on point of hock, no scabs
    - 5/23/19= Much cleaner. Both hind feet clean and furred, alopecia remains, no scabs
  - Recheck in about 2 months, July- Aug
- Trixie #105
  - Weight 08/09/18= 4.90 kg, weight 07/19/18= 4.66 kg, weight 4/11/19= 4.92 kg
  - Mild – moderate pododermatitis
    - 4/11/19= Fur is dirty around perineum and thighs, both hind feet have very dirty fur, left hind has a pencil eraser size area of alopecia at the point of hock.
    - 5/23/19= Mats at tail, clipped. Left hind foot- fur is clean but thin, 3 mm alopecia area, right hind foot- fairly clean fur, small scab at point of hock, alopecia area larger than pencil eraser
  - Recheck in June- May need anesthesia to clip down and wash fur on feet
- Tex # 101
  - Weight 08/09/18= 4.10 kg, 07/19/18 = 4.16 kg, 4/11/19= 4.18 kg, 5/6/19 = 4.16 kg.
    - Tex has had some weight loss but appears to be stable now.
    - I had suspected some dental disease, will continue to monitor.
    - Mild to moderate Pododermatitis
      - Left and right hind feet have alopecia on plantar surface and alopecia area around 6 mm at point of hock
    - Some mats inguinal
  - Recheck June

- Jasper #104
  - Weight 08/09/18= 3.86 kg, weight 07/19/18 = 3.98 kg, weight 4/5/19 = 3.72 kg
  - Mild pododermatitis, Fur on feet is clean and fluffy
    - Left hind alopecia about 3 mm diameter on point of hock
    - Right hind alopecia around 6 mm diameter at point of hock
  - Feet well furred
  - Recheck June
- Daisy #108
  - Weight 08/09/18= 4.22 kg, weight 7/19/18= 4.28 kg, Weight 4/5/19= 4.04 kg
  - Mild pododermatitis
    - Feet are clean and well furred, but Left hind has mild alopecia size of pencil eraser, no scabs, at point of hock
    - Right hind has alopecia in circular size approximately pencil eraser, no scab
  - Recheck in June
- Wyatt Earp # 109
  - Weight 4/5/19= 3.36 kg
  - Mild pododermatitis
    - Both hind feet have 3- 5 mm diameter circular alopecia lesions at points of hock
    - No scabs
  - Recheck June
- Doc Holliday # 110
  - Weight 4/5/19= 3.20 kg
  - Nervous- unable to check feet.
  - Plan- work on socializing to handling and exam
  - Recheck June to socialize
- Johnny Ringo #111
  - Weight 4/5/19= 3.32 kg
  - Very mild pododermatitis
    - Both hind feet have circular alopecia at point of hock, around 3-4 mm diameter
  - Recheck June
- **Recommendations**
  - When the exercise pen is back up and running;
    - All rabbits need 4+ hours in exercise pen, once or twice a week
    - For the exercise room, only use the irradiated hay from Bio-Serv
- **Rabbit feed**
  - Completely discontinue all Kaytee brand hay
  - Use only Oxbow hay in the housing room
    - Please, if all hay could be ordered online, that would be best case scenario
  - All rabbits should have unlimited grass hay= timothy, orchard grass, meadow grass

Thanks very much,  
Leslie



very tense

(R)

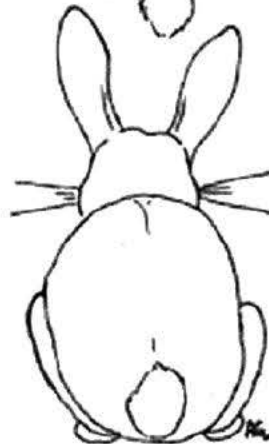
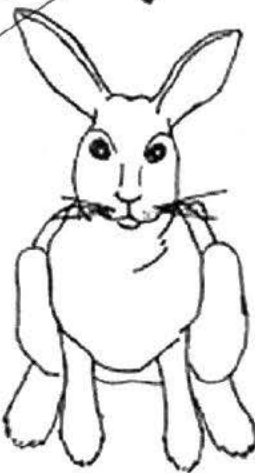
(L)

Dirty

Dirty

Perineal  
erosion

Dirty



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Trixie 4/11/19

#105

Wt. 4.92 kg

5/23/19 Trixie 105

musthesis  
to clean feet  
+ v for more  
mats  
of foam

R  
small  
scabs  
→ perineal  
erosion

(L)  
pale  
pink  
fur ok  
but  
thin

□ Pecked - mats - tail.  
clipped  
(R) Hind foot nev in June  
need



# SMALL MAMMAL PA/NT EXAMINATION REPORT CARD

<b>1. Coat/Ear &amp; Skin</b> <input checked="" type="checkbox"/> Appears normal    Dull/Dry <input type="checkbox"/> Scaly    Scabs <input type="checkbox"/> Infection    Shedding <input type="checkbox"/> Matted    Tumors <input type="checkbox"/> Itchy    Hair Loss		<b>TESTS NEEDED:</b> <input type="checkbox"/> Annual Blood Work <input type="checkbox"/> Urinalysis <input type="checkbox"/> Fecal Examination <input type="checkbox"/> Spay / Neuter <input type="checkbox"/> Microchip <input type="checkbox"/> Skin Scraping <input type="checkbox"/> Fungal Culture <input type="checkbox"/> Ear Cytology		<b>RECOMMENDATIONS:</b> Cage Change: _____ Bedding Change: Change Type Diet Change: Please see handout		Tech Initials: _____ Temp: _____ Weight: <u>4.92 kg</u>	
<b>2. Eyes</b> <input checked="" type="checkbox"/> Appears Normal    Discharge <input type="checkbox"/> Inflamed    Infection <input type="checkbox"/> Eyelid Deformities    Ulcer: L R <input type="checkbox"/> Cataract: L R		<b>Appetite:</b> <input checked="" type="checkbox"/> normal / increased / decreased <b>Water Intake:</b> <input checked="" type="checkbox"/> normal / increased / decreased <b>Coughing:</b> <input checked="" type="checkbox"/> No / Yes, Frequency: _____ <b>Sneezing:</b> <input checked="" type="checkbox"/> No / Yes, Frequency: _____		<b>Urination:</b> <input checked="" type="checkbox"/> normal / increased/decreased <b>Attitude:</b> <input checked="" type="checkbox"/> normal / abnormal <b>Feces:</b> <input checked="" type="checkbox"/> normal / abnormal			
<b>3. Ears</b> <input checked="" type="checkbox"/> Appears Normal    Inflamed: L R <input type="checkbox"/> Dirty    Mites <input type="checkbox"/> Tumor: L R    Infected <input type="checkbox"/> Excessive Hair    Painful		<b>Presented For:</b> <u>Annual exam</u>					
<b>4. Nose</b> <input checked="" type="checkbox"/> Appears Normal    Nasal Discharge <input type="checkbox"/> Other: _____		<b>Historical Issues/ Medications:</b> <u>Mild pododermatitis</u>					
<b>5. Mouth, Teeth, Gums</b> <input checked="" type="checkbox"/> Appears Normal    Broken Teeth <input type="checkbox"/> Tartar Buildup    Tumors <input type="checkbox"/> Overgrown Incisors    Inflamed Lips <input type="checkbox"/> Overgrown Molars    Periodontal Disease <input type="checkbox"/> Overgrown roots    Abscessed		<b>Current Diet:</b> <u>Grass hay, Purina Hi-Fiber rabbit pellets, fresh veg</u>					
<b>6. Legs &amp; Paws</b> <input checked="" type="checkbox"/> Appears Normal    Joint Problems <input type="checkbox"/> Nail Problems    Lameness <input type="checkbox"/> Other: _____		<b>Examination:</b> <u>SLO. BARH. MM pi + moist, CRT ~ 1 sec EEN</u> <u>clear. LN wab. very tense. Abd-</u> <u>very tense + difficult to palpate.</u> <u>Jaw - symmetrical; no obvious abnormalities</u> <u>HR 200 + sinus arrhythmia (normal)</u> <u>very nervous. RR ~ sniff, no wheezes</u> <u>auscultated. Hind feet - see drawing</u> <u>LH - pencil eraser size alopecia on</u> <u>point of hock; fur is dirty</u> <u>RH - no alopecia but fur is dirty</u> <u>A. pododermatitis, mild</u> <u>P. Continue monitor, exercise pen as it</u> <u>is available; rev 1-2 months or</u> <u>per</u>					
<b>7. Heart</b> <input checked="" type="checkbox"/> Appears Normal    200 bpm <input type="checkbox"/> Slow    Fast <input type="checkbox"/> Murmur    Irregular							
<b>8. Lungs</b> <input checked="" type="checkbox"/> Appears Normal    Coughing <input type="checkbox"/> Abnormal Sound    Congestion <input type="checkbox"/> Rapid Respiration    Dyspnea							
<b>9. Abdomen</b> <input checked="" type="checkbox"/> Appears Normal    Abnormal Mass <input type="checkbox"/> Enlarged Organs    Tense/Painful <input type="checkbox"/> Fluid    Swollen							
<b>10. Gastrointestinal System</b> <input checked="" type="checkbox"/> Appears Normal    Abnormal Feces <input type="checkbox"/> Stasis/ Impaction    Parasites <input type="checkbox"/> Anorexia							
<b>11. Urogenital System</b> <input checked="" type="checkbox"/> Appears Normal    Abnormal Urination <input type="checkbox"/> Mammary Tumors    Genital Discharge <input type="checkbox"/> Abnormal Testicles							
<b>12. Weight</b> <u>4.92 kg</u> Normal    Obese Heavy By: _____ Thin By: _____		<b>Doctor:</b> Doctor's name, DVM    Need: <u>Rev Feet</u> In: <u>1-2 months</u> Days					
<b>DIAGNOSIS OR PROBLEMS</b> <u>pododermatitis</u>		<b>PROGNOSIS</b> _____		<b>DIFFERENTIAL DIAGNOSIS</b> _____		<b>PLAN</b> <u>Monitor,</u> <u>rev</u>	
<b>Today's Date:</b> <u>4/11/19</u> <b>Chart #:</b> <u>105</u> <b>Species/Breed:</b> <u>Rabbit- NZW</u> <b>DOB:</b> <u>5/7/14</u> <b>Pet's Name:</b> <u>Trixie</u> <b>Last Name:</b> _____ <b>Color:</b> <u>white</u> <b>Sex:</b> <u>FI</u>		<u>Trixie #105</u>					

Most likely days = Fri 3/1 or Sun 3/2

## Trixie Behavioral Checklist

Date	Fur present in cage?	Unusually aggressive behavior?	Increased water consumption?	Carrying hay in mouth?	Other (describe)
Wed, Feb. 20, 2019					
Thurs, Feb. 21, 2019					
Fri, Feb. 22, 2019					
Sat, Feb. 23, 2019					
Sun, Feb. 24, 2019					
Mon, Feb. 25, 2019					
Tues, Feb. 26, 2019	N/A	Calm behavior	N/A	N/A	resting on rest board ate half of carrot on
Wed, Feb. 27, 2019	N/A	Calm behavior	N/A	N/A	resting on tie rack @ corner of cage
Thurs, Feb. 28, 2019	min. due to shedding	Calm behavior	N/A	NO (N/A)	moving around normally
Fri, Mar. 1, 2019	min due to shedding	Calm behavior	N/A	N/A	resting under rest board resting in nest box
Sat, Mar. 2, 2019					
Sun, Mar. 3, 2019					
Mon, Mar. 4, 2019					

### What to do:

As soon as she starts pulling hair from chest, belly, and legs: place nestbox

As soon as she starts carrying hay in mouth: place nestbox

Monitor: increasing water consumption, behavior= general signs of pregnancy

\* additional observations on back of sheet 2/27/19

★  
MOST  
LIKELY  
DAYS  
TO  
GIVE  
BIRTH  
★



2/27/19 - Eating hay and playing w/ enrichment

2/28/19 - Ved weight log last week weighted 4.92kg and this week 5.04 → Ved weight today  
shes down to 5.02. Calm behavior as stranger ( [REDACTED] ) pcts her. Plays w/ toys and  
[REDACTED] I wait away.



## Jarrell, Leslie

---

**From:** Jarrell, Leslie  
**Sent:** Thursday, December 20, 2018 3:35 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie  
**Subject:** RE: Rabbits - Updates from Dec 20 2018  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi all,  
Rabbit notes. Today, [REDACTED] and I did rechecks for Trixie, Jasper and Daisy. We will check the new rabbits (brief exam, to get them to tolerate exams) after the new year. Then will also do rechecks of Dixie, Tex and Leo.

We are also working on an enrichment log sheet to track exercise time/ rabbit/ vegetable treats.

Thank you,  
Leslie

- Rabbit feet
  - Very good improvement
    - [REDACTED] has done a great job with getting the rabbits more exercise!
  - Trixie- Hind feet are well furred and clean. Alopecia area only on point of left heel, and is smaller than the diameter of a pencil eraser.
  - Jasper- Hind feet are clean and well-furred. Feet appear normal!
  - Daisy- Hind feet are well-furred and clean. Alopecia areas at the points of heels are small, around 2 mm diameter, smaller than pencil eraser. You have to look for these alopecia areas.

**From:** Jarrell, Leslie  
**Sent:** Thursday, November 29, 2018 12:54 PM  
**To:** [REDACTED]

**Cc:** [REDACTED], [REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
[REDACTED]  
[REDACTED]

**Subject:** RE: Rabbits - Updates from Nov 29, 2018

Hi all,  
Rabbit notes from today. Today, [REDACTED] and I did rechecks for Dixie, Tex and Leo. Will continue rabbit feet checks next week and then exams on the 3 new rabbits the week after.

Thanks,  
Leslie

- Rabbit feet
  - Very good improvement
    - [REDACTED] has done a great job

- Dixie #106: Feet are clean and have more fur. Fur on tail and legs is not well-groomed, but no issues seen. No scabs on alopecia areas. Alopecia areas are on the points of each heel, and are approximately the diameter of a pencil eraser. Feet much cleaner and no scabs on alopecia means good improvement for Dixie
- Tex #101- Feet are clean and well-furred. Small alopecia areas at points of heels, smaller than pencil eraser diameter. You have to look for the alopecia areas. Very good improvement with Tex.
- Leo #102- Feet are well-furred and much cleaner- only slightly dirty. Alopecia areas at the points of heels are very small, around 1- 3 mm diameter, smaller than pencil eraser. You have to actually look for these alopecia areas, which is a good improvement.

**From:** Jarrell, Leslie

**Sent:** Thursday, October 25, 2018 12:16 PM

**To:** [REDACTED]

**Cc:** [REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]

**Subject:** RE: Rabbits - Updates from Sept 26, 2018

Hi all,

Rabbit notes from our last update! Exams were Sept 26, and rechecks are due again in the next few weeks.

- New rabbits
  - Doing well in rabbit room
  - [REDACTED] has started them in the exercise pens
    - He says they are very active in the pens
- Rabbit feed
  - Completely discontinue all Kaytee brand hay
  - Use only Oxbow hay in the housing room
    - Please, if all hay could be ordered online, that would be best case scenario
  - All rabbits should have unlimited grass hay= timothy, orchard grass, meadow grass
  - For the exercise room, only use the irradiated hay from Bio-Serv
- New horse barn non-slip mats for exercise room
  - Finally are manageable now that [REDACTED] has washed them
  - And [REDACTED] has cut the mats so they are easier to move as they are very heavy
  - Thanks [REDACTED] for all your work on them!
- Rabbit feet
  - Rechecked Sept 26, due for recheck in next few weeks
  - Overall there was good improvement
    - [REDACTED] has done very well with them
  - Briefly;
  - Dixie #106; dirty feet, some scabs alopecic areas, slightly improved. Would like more improvement with Dixie.
  - Tex #101- dirty feet, improved though because right foot has no scabs, and alopecia area is smaller than pencil erase. Left hind foot, still some scabs and redness, about size of pencil eraser area of alopecia. Would like more improvement with Tex.

- Trixie #105 – Improved. Right hind foot- Clean, no scabs, no redness, pencil eraser size of alopecia at point of heel. Left foot, pencil eraser diameter size alopecia, but no scabs and slightly dirty.
- Leo #102- Right hind foot mildly dirty, very small spot of alopecia, much smaller than pencil eraser size, left hind foot, clean, small area of alopecia at point of heel. Much improved.

Thanks very much,  
Leslie

From: Jarrell, Leslie  
Sent: Friday, August 31, 2018 2:46 PM

To: [REDACTED]

Cc: [REDACTED]; Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]

Subject: RE: Rabbits - Updates Aug 31, 2018

Hi [REDACTED]

Hope all are well! Rabbit notes for today.

- Moving new rabbits to regular room
  - No sniffing or snuffling from the new rabbits
  - On Tues, they will have been here for 5 weeks
  - I've talked with [REDACTED] about moving the new rabbits into the regular room on Tuesday Sept 4
  - Watch for any issues
- New racks
  - Arriving Mon Sept 10
  - Once cleaned and set up, let's try them out ASAP
- Rabbit feed
  - Completely discontinue all Kaytee brand hay
  - Use only Oxbow hay in the housing room
    - Oxbow has; timothy, orchard grass, meadow grass, mixtures and alfalfa
    - Please, if all hay could be ordered online, that would be best case scenario
  - For the exercise room, only use the irradiated hay from Bio-Serv
- New rabbits
  - One is still a little jumpy
  - Work on continuing to socialize to handling
  - Do **not** recommend having the new rabbits go into the exercise pen until they are easily picked up and "caught"
  - New rabbits can have 3- 4 handfuls of timothy hay/ day
  - If we got some alfalfa hay from Oxbow, they could have half a handful per day as well. Just a little, and only for the new rabbits
- New horse barn non-slip mats for exercise room
  - Still smell like rubber
  - Waiting for the smell to dissipate
  - Thanks [REDACTED] for cleaning them!



- Rabbit feet
  - Rechecked yesterday
  - Overall there was good improvement
    - [REDACTED] has done very well with them
  - Briefly; Dixie #106; dirty feet, red and alopecic areas, but improved from Aug 10. Tex #101- dirty feet, fur isn't very thick, but better than Aug 10 and scabs and alopecia have improved. Trixie #105 – still alopecia but feet are much cleaner and improved

Thanks very much,  
Leslie

From: Jarrell, Leslie  
Sent: Friday, August 10, 2018 12:17 PM  
To: [REDACTED]

Cc: [REDACTED]; Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
[REDACTED]  
[REDACTED]

Subject: RE: Rabbits - Updates Aug 10, 2018

Hi [REDACTED]  
Rabbit foot rechecks from yesterday! Some progress, I'd like to see more progress though.

Briefly; Dixie #106 still #1 to watch for; dirty feet, scabbed, and has gained weight. Tex #101- dirty feet, also left hind leg on the lateral (outside) lower leg and thigh, but scabs slightly improved. Leo #102- better left hind, worse right hind. And Trixie #105 - not scabbed but alopecia bigger than pencil eraser diameter (~ 5 mm). Attached are their exam maps. [REDACTED] will apply topical silvadene to their feet as possible.

Jasper is about the same, and Daisy better, no scabs but still alopecia and gained weight.

The females have gained weight and the males have lost a little weight. I think [REDACTED] ordered more nonslip horse mats for the exercise room. [REDACTED] has been keeping them in there longer.

[REDACTED] noticed that the one brand of hay isn't as long-stem as the other, and falls through the holes so the rabbits can't eat it all. For now they will need quite a bit of hay to make up for the hay that falls through the holes and isn't accessible. When the new hay arrives, they can be switched to that hay instead. [REDACTED] has already ordered more Oxbow hay! Thanks all.

The new rabbits #109, 110, 111 seem to be settling in. They are now getting 2 handfuls of timothy hay per day. When the alfalfa hay comes in, they can each have 1 handful of alfalfa per day in addition to their timothy hay. Same amount of pellets.

Thanks,  
Leslie

- Dixie #106
  - Weight 8/10/18= 4.70 kg, 07/19/18= 4.66 kg
  - Moderate Pododermatitis



- Left hind and right hind - have scabs at point of heel, alopecia and erythema (reddened skin from irritation) and also alopecia and erythema on plantar surface both hind feet
  - Feet – not well furred, fur is dirty but no mats
- Recheck 2- 4 weeks, increase time in exercise pen
- Increase timothy hay given
- Tex #101
  - Weight 08/09/18= 4.10 kg, 07/19/18 = 4.16 kg
    - Tex has had some weight loss over about 7 months
    - DDX- suspect dental disease
      - We can increase his hay and add alfalfa hay
      - We can't diagnose or address dental disease without radiographs
    - Mild to moderate Pododermatitis
      - LH has alopecia on plantar surface and alopecia area around 4 mm at point of hock
      - RH has scabs at point of hock, around 4 mm diameter area of alopecia
      - Fur is dirty, but not matted
    - Some mats near tail base
    - Dirty fur on lateral (outside) side of left hind foot and leg
    - Recheck about 2- 4 weeks
    - Increase time in exercise pen
    - Increase timothy hay
- Leo #102
  - Weight 08/09/18= 4.10 kg, weight 07/19/18= 4.22 kg
  - Mild to moderate pododermatitis
    - Left hind foot- no scabs, but pink, and alopecia on point of hock
    - Right hind foot = dirty, no mats, and alopecia increased to 5 mm diameter on point of hock, no scab
- Trixie #105
  - Weight 08/09/18= 4.90 kg, weight 07/19/18= 4.66 kg
  - Mild pododermatitis
    - Left hind alopecia at point of hock and plantar surface, around 5+ mm diameter
    - Right hind alopecia at plantar surface, and alopecia around 5+ mm diameter at point of hock
- Jasper #104
  - Weight 08/09/18= 3.86 kg, weight 07/19/18 = 3.98 kg
  - Mild pododermatitis
    - Left hind alopecia about 2 mm diameter on point of hock
    - Right hind alopecia around 3 mm diameter at point of hock
  - Feet well furred
- Daisy #108
  - Weight 08/09/18= 4.22 kg, weight 7/19/18= 4.28 kg
  - Mild prododermatitis
    - Feet are clean and well furred, but RH has mild alopecia around 2 mm diameter at point of hock
- **Recommendations**
  - All rabbits need 4+ hours in exercise pen, once or twice a week
  - Increase Oxbow timothy hay for all rabbits
  - **Recheck all rabbits' feet in 2-4 weeks**

From: Jarrell, Leslie

Sent: Thursday, July 19, 2018 1:09 PM

To: [REDACTED]

Cc: [REDACTED]; Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]

Subject: RE: Rabbits - Updates July 19, 2018

Hi [REDACTED]

Here are the rechecks on the rabbits' feet from today. Dixie and Tex will need the most time in the exercise pen. I've attached their exam map charts so you will know what I'm talking about.

- Dixie #106
  - Weight 4.76 kg, weight 07/19/18= 4.66 kg
  - Pododermatitis, LH and RH have scabs at point of heel, alopecia and erythema (reddened skin from irritation) and also alopecia and erythema on plantar surface both hind feet
  - Feet – not very well furred, fur is mildly dirty but no mats
  - Recheck 2 weeks, increase time in exercise pen
- Tex #101
  - Weight 4.36 kg, weight 07/19/18 = 4.16 kg
    - Tex has had some weight loss over about 7 months
    - DDX- suspect dental disease
      - We can increase his hay and add alfalfa hay
      - We can't diagnose or address dental disease without radiographs
  - Pododermatitis
    - LH has alopecia on plantar surface and alopecia area around 4 mm at point of hock
    - RH has scabs at point of hock, around a 4 mm diameter area of alopecia
    - Fur is not clean, but not matted
    - Some mats near tail base
    - Recheck about 2 weeks
    - Increase time in exercise pen
- Leo #102
  - Weight 4.26 kg, weight 07/19/18= 4.22 kg
  - Mild pododermatitis, LH foot- small scabs and alopecia on point of hock, RH foot alopecia around 2-3 mm diameter on point of hock, very small scab
- Jasper #104
  - Weight 4.2 kg, weight 07/19/18 = 3.98 kg
  - Mild pododermatitis, Left hind LH alopecia about 2 mm diameter on point of hock, RH alopecia around 3 mm diameter at point of hock
  - Feet well furred
- Trixie #105
  - Weight 5.08 kg, weight 07/19/18= 4.66 kg
  - Mild pododermatitis, LH alopecia at point of hock, RH alopecia at plantar surface, small scab and alopecia around 4 mm diameter at point of hock

- Daisy #108
  - Weight = 4.28 kg, weight 7/19/18= 4.28 kg
  - Mild pododermatitis, feet are clean and well furred, but RH has mild alopecia around 2 mm diameter at point of hock
- **Recommendations**
  - All rabbits need 3-4 hours in exercise pen, once or twice a week
  - Increase hay for all rabbits
  - **Recheck all rabbits' feet in 2-4 weeks**
  - **Will need to hang a water bottle for each side of the exercise pen**

Thanks,  
Leslie

From: Jarrell, Leslie  
Sent: Thursday, July 12, 2018 2:05 PM

To: [REDACTED]

Cc: [REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]

Subject: Rabbits - Updates July 2018

Hi [REDACTED],

Here are the exams on the rabbits;

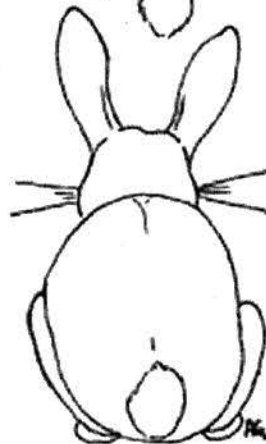
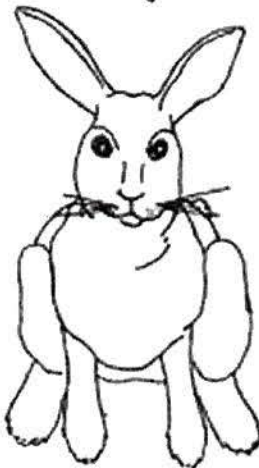
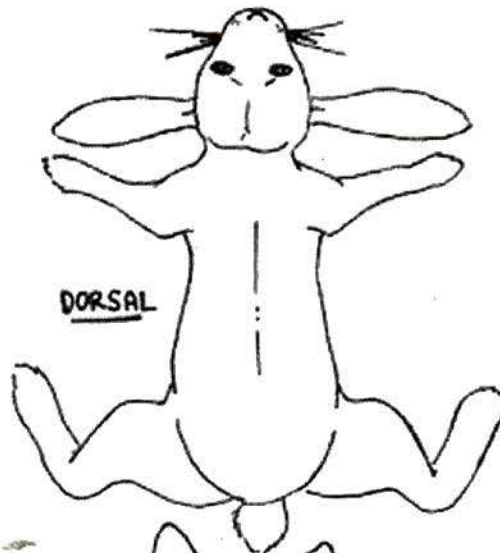
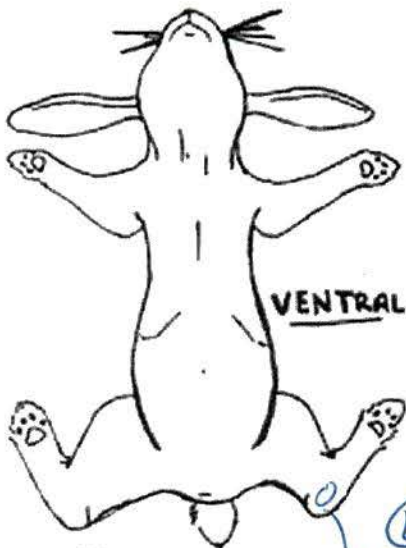
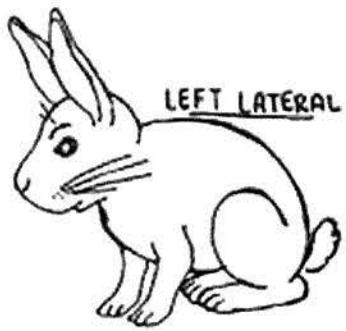
- Tex #101
  - Weight 4.36 kg
  - Mats tail base, hind legs
  - Mild pododermatitis with small scabs on both hind feet
- Leo #102
  - Weight 4.26 kg
  - Mild pododermatitis, small scabs only on right hind foot, alopecia only on left hind foot
- Jasper #104
  - Weight 4.2 kg
  - Mats near tail base
  - Feet well furred
  - Very mild pododermatitis, alopecia on both hind feet
- Trixie #105
  - Weight 5.08 kg
  - Feet well furred
  - Mild pododermatitis, small scab and alopecia left hind foot, alopecia only on right hind foot
- Dixie #106
  - Weight 4.76 kg
  - Feet well furred, clean
  - Very mild pododermatitis, alopecia on both hind feet
- Daisy #108
  - Weight = 4.28 kg
  - Hind feet were well-furred, no mats, no alopecia

- **Recommendations**

- All rabbits need 3-4 hours in exercise pen, once or twice a week
- Increase hay for all rabbits
- **Recheck all rabbits' feet next week.**

Thanks,  
Leslie





②  
penal  
erector

Makal Animal Clinic, Inc. 420 Ukuli Street, Kailua, HI 96734 808-262-9621

Trixie 12/20/18  
well fixed!  
clear!  
② only

## Jarrell, Leslie

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**From:** Jarrell, Leslie  
**Sent:** Thursday, October 25, 2018 12:16 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** RE: Rabbits - Updates from Sept 26, 2018

Hi all,

Rabbit notes from our last update! Exams were Sept 26, and rechecks are due again in the next few weeks.

- New rabbits
  - Doing well in rabbit room
  - [REDACTED] has started them in the exercise pens
    - He says they are very active in the pens
- Rabbit feed
  - Completely discontinue all Kaytee brand hay
  - Use only Oxbow hay in the housing room
    - Please, if all hay could be ordered online, that would be best case scenario
  - All rabbits should have unlimited grass hay= timothy, orchard grass, meadow grass
  - For the exercise room, only use the irradiated hay from Bio-Serv
- New horse barn non-slip mats for exercise room
  - Finally are manageable now that [REDACTED] has washed them
  - And [REDACTED] has cut the mats so they are easier to move as they are very heavy
  - Thanks [REDACTED] for all your work on them!
- Rabbit feet
  - Rechecked Sept 26, due for recheck in next few weeks
  - Overall there was good improvement
    - [REDACTED] has done very well with them
  - Briefly;
  - Dixie #106; dirty feet, some scabs alopecic areas, slightly improved. Would like more improvement with Dixie.
  - Tex #101- dirty feet, improved though because right foot has no scabs, and alopecia area is smaller than pencil erase. Left hind foot, still some scabs and redness, about size of pencil eraser area of alopecia. Would like more improvement with Tex.
  - **Trixie #105 – Improved.** Right hind foot- Clean, no scabs, no redness, pencil eraser size of alopecia at point of heel. Left foot, pencil eraser diameter size alopecia, but no scabs and slightly dirty.
  - Leo #102- Right hind foot mildly dirty, very small spot of alopecia, much smaller than pencil eraser size, left hind foot, clean, small area of alopecia at point of heel. Much improved.

Thanks very much,  
Leslie

**From:** Jarrell, Leslie  
**Sent:** Friday, August 31, 2018 2:46 PM

Jarrell, Leslie

---

**From:** Jarrell, Leslie  
**Sent:** Friday, August 31, 2018 2:46 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jamie  
**Subject:** RE: Rabbits - Updates Aug 31, 2018  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi [REDACTED]  
Hope all are well! Rabbit notes for today.

- Moving new rabbits to regular room
  - No sniffing or snuffling from the new rabbits
  - On Tues, they will have been here for 5 weeks
  - I've talked with [REDACTED] about moving the new rabbits into the regular room on Tuesday Sept 4
  - Watch for any issues
- New racks
  - Arriving Mon Sept 10
  - Once cleaned and set up, let's try them out ASAP
- Rabbit feed
  - Completely discontinue all Kaytee brand hay
  - Use only Oxbow hay in the housing room
    - Oxbow has; timothy, orchard grass, meadow grass, mixtures and alfalfa
    - Please, if all hay could be ordered online, that would be best case scenario
  - For the exercise room, only use the irradiated hay from Bio-Serv
- New rabbits
  - One is still a little jumpy
  - Work on continuing to socialize to handling
  - Do **not** recommend having the new rabbits go into the exercise pen until they are easily picked up and "caught"
  - New rabbits can have 3- 4 handfuls of timothy hay/ day
  - If we got some alfalfa hay from Oxbow, they could have half a handful per day as well. Just a little, and only for the new rabbits
- New horse barn non-slip mats for exercise room
  - Still smell like rubber
  - Waiting for the smell to dissipate
  - Thanks [REDACTED] for cleaning them!
- Rabbit feet
  - Rechecked yesterday
  - Overall there was good improvement
    - [REDACTED] has done very well with them



## Jarrell, Leslie

---

**From:** Jarrell, Leslie  
**Sent:** Friday, August 10, 2018 12:17 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** RE: Rabbits - Updates Aug 10, 2018  
**Attachments:** Dixie 106 on 080918.pdf; Tex 101 on 080918.pdf; Leo 102 on 080918.pdf; Trixie 105 on 080918.pdf

Hi [REDACTED]  
Rabbit foot rechecks from yesterday! Some progress, I'd like to see more progress though.

Briefly; Dixie #106 still #1 to watch for; dirty feet, scabbed, and has gained weight. Tex #101- dirty feet, also left hind leg on the lateral (outside) lower leg and thigh, but scabs slightly improved. Leo #102- better left hind, worse right hind. And Trixie #105 - not scabbed but alopecia bigger than pencil eraser diameter (~ 5 mm). Attached are their exam maps. [REDACTED] will apply topical silvadene to their feet as possible.

Jasper is about the same, and Daisy better, no scabs but still alopecia and gained weight.

The females have gained weight and the males have lost a little weight. I think [REDACTED] ordered more nonslip horse mats for the exercise room. [REDACTED] has been keeping them in there longer.

[REDACTED] noticed that the one brand of hay isn't as long-stem as the other, and falls through the holes so the rabbits can't eat it all. For now they will need quite a bit of hay to make up for the hay that falls through the holes and isn't accessible. When the new hay arrives, they can be switched to that hay instead. [REDACTED] has already ordered more Oxbow hay! Thanks all.

The new rabbits #109, 110, 111 seem to be settling in. They are now getting 2 handfuls of timothy hay per day. When the alfalfa hay comes in, they can each have 1 handful of alfalfa per day in addition to their timothy hay. Same amount of pellets.

Thanks,  
Leslie

- Dixie #106
  - Weight 8/10/18= 4.70 kg, 07/19/18= 4.66 kg
  - Moderate Pododermatitis
    - Left hind and right hind - have scabs at point of heel, alopecia and erythema (reddened skin from irritation) and also alopecia and erythema on plantar surface both hind feet
    - Feet – not well furred, fur is dirty but no mats
  - Recheck 2- 4 weeks, increase time in exercise pen
  - Increase timothy hay given
- Tex #101
  - Weight 08/09/18= 4.10 kg, 07/19/18 = 4.16 kg
    - Tex has had some weight loss over about 7 months
    - DDX- suspect dental disease
      - We can increase his hay and add alfalfa hay
      - We can't diagnose or address dental disease without radiographs
    - Mild to moderate Pododermatitis
      - LH has alopecia on plantar surface and alopecia area around 4 mm at point of hock

- RH has scabs at point of hock, around 4 mm diameter area of alopecia
    - Fur is dirty, but not matted
  - Some mats near tail base
  - Dirty fur on lateral (outside) side of left hind foot and leg
  - Recheck about 2- 4 weeks
  - Increase time in exercise pen
  - Increase timothy hay
- Leo #102
    - Weight 08/09/18= 4.10 kg, weight 07/19/18= 4.22 kg
    - Mild to moderate pododermatitis
      - Left hind foot- no scabs, but pink, and alopecia on point of hock
      - Right hind foot = dirty, no mats, and alopecia increased to 5 mm diameter on point of hock, no scab
- Trixie #105
    - Weight 08/09/18= 4.90 kg, weight 07/19/18= 4.66 kg
    - Mild pododermatitis
      - Left hind alopecia at point of hock and plantar surface, around 5+ mm diameter
      - Right hind alopecia at plantar surface, and alopecia around 5+ mm diameter at point of hock
- Jasper #104
    - Weight 08/09/18= 3.86 kg, weight 07/19/18 = 3.98 kg
    - Mild pododermatitis
      - Left hind alopecia about 2 mm diameter on point of hock
      - Right hind alopecia around 3 mm diameter at point of hock
    - Feet well furred
- Daisy #108
    - Weight 08/09/18= 4.22 kg, weight 7/19/18= 4.28 kg
    - Mild prododermatitis
      - Feet are clean and well furred, but RH has mild alopecia around 2 mm diameter at point of hock

## • Recommendations

- All rabbits need 4+ hours in exercise pen, once or twice a week
- Increase Oxbow timothy hay for all rabbits
- **Recheck all rabbits' feet in 2-4 weeks**

From: Jarrell, Leslie

Sent: Thursday, July 19, 2018 1:09 PM

To: [REDACTED]

[REDACTED]

Cc: [REDACTED]; Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]

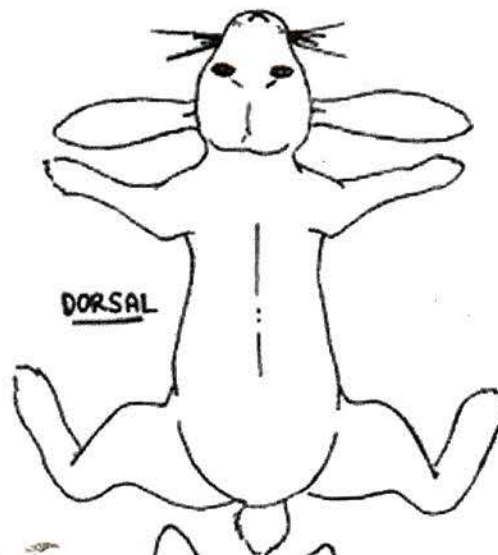
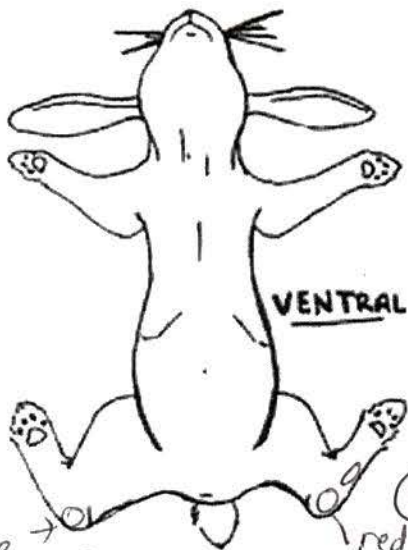
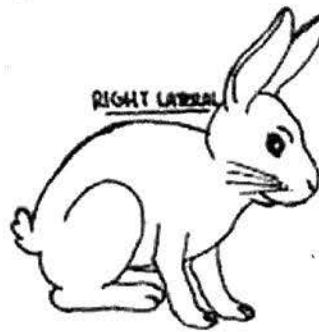
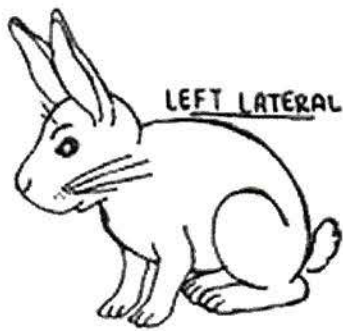
[REDACTED]

[REDACTED]

Subject: RE: Rabbits - Updates July 19, 2018

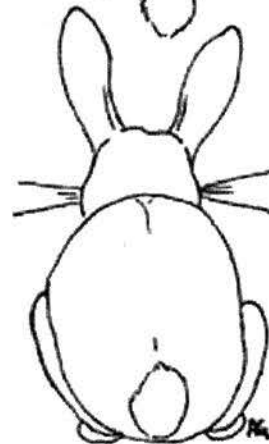
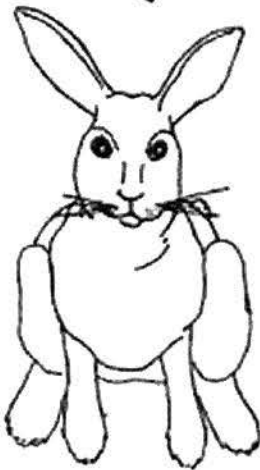
Hi [REDACTED]

Trixie 8/30/18

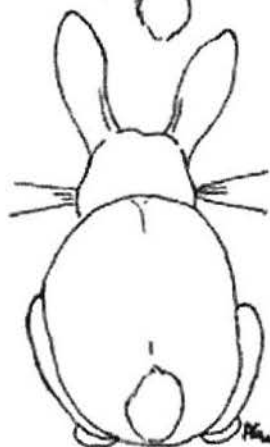
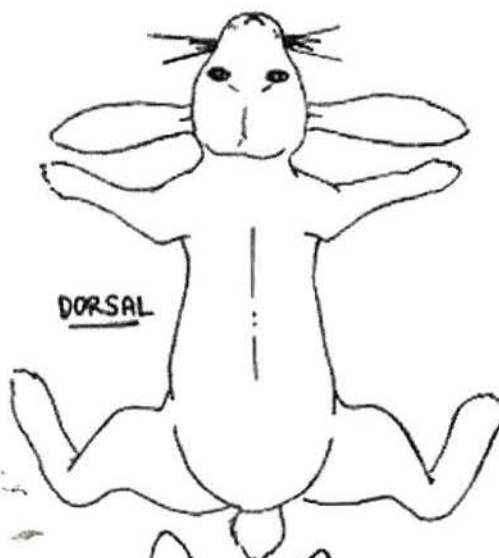
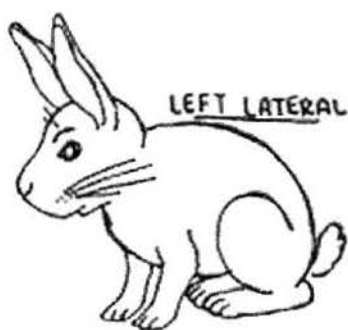


SI. scab  
along  
neck both  
clean

red  
cleaner  
than before







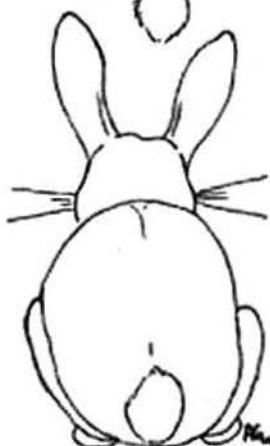
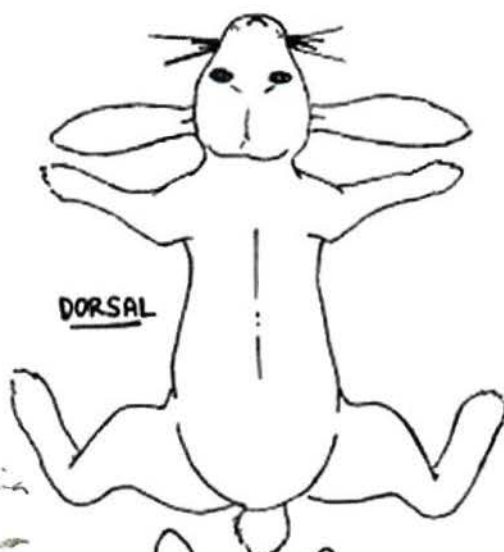
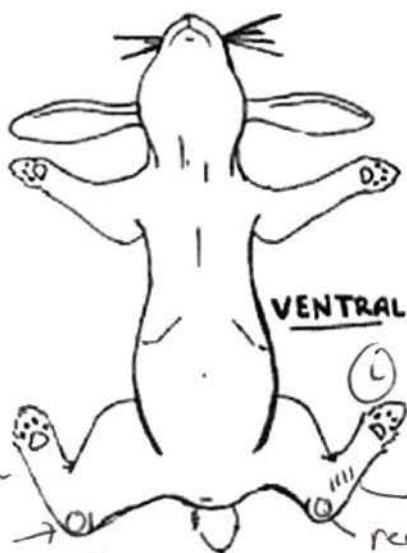
Katal Animal Clinic, Inc. 420 Ukulu Street, Kailua, HI 96734 808-262-9621

Trixie 8/09/18

#105

WT = 4.90 kg

Email to  
PI 8/16/18



Karal Animal Clinic, Inc. 420 Ukuli Street, Kauai, HI 96734 808-262-9621

Trixie 8/09/18

#105

wt = 4.90 kg

## Jarrell, Leslie

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**From:** [REDACTED]  
**Sent:** Thursday, July 19, 2018 2:56 PM  
**To:** Jarrell, Leslie; [REDACTED]  
**Cc:** [REDACTED]; Graff, Jaimie; [REDACTED]  
**Subject:** RE: Rabbits - Updates July 19, 2018

Thanks for the update..

**From:** Jarrell, Leslie  
**Sent:** Thursday, July 19, 2018 1:09 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]; Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
**Subject:** RE: Rabbits - Updates July 19, 2018

Hi [REDACTED]

Here are the rechecks on the rabbits' feet from today. Dixie and Tex will need the most time in the exercise pen. I've attached their exam map charts so you will know what I'm talking about.

- Dixie #106
  - Weight 4.76 kg, weight 07/19/18= 4.66 kg
  - Pododermatitis, LH and RH have scabs at point of heel, alopecia and erythema (reddened skin from irritation) and also alopecia and erythema on plantar surface both hind feet
  - Feet – not very well furred, fur is mildly dirty but no mats
  - Recheck 2 weeks, increase time in exercise pen
- Tex #101
  - Weight 4.36 kg, weight 07/19/18 = 4.16 kg
    - Tex has had some weight loss over about 7 months
    - DDX- suspect dental disease
      - We can increase his hay and add alfalfa hay
      - We can't diagnose or address dental disease without radiographs
  - Pododermatitis
    - LH has alopecia on plantar surface and alopecia area around 4 mm at point of hock
    - RH has scabs at point of hock, around a 4 mm diameter area of alopecia
    - Fur is not clean, but not matted
    - Some mats near tail base
    - Recheck about 2 weeks
    - Increase time in exercise pen
- Leo #102
  - Weight 4.26 kg, weight 07/19/18= 4.22 kg
  - Mild pododermatitis, LH foot- small scabs and alopecia on point of hock, RH foot alopecia around 2-3 mm diameter on point of hock, very small scab
- Jasper #104

- Weight 4.2 kg, weight 07/19/18 = 3.98 kg
- Mild pododermatitis, Left hind LH alopecia about 2 mm diameter on point of hock, RH alopecia around 3 mm diameter at point of hock
- Feet well furred
- Trixie #105
  - Weight 5.08 kg, weight 07/19/18= 4.66 kg
  - Mild pododermatitis, LH alopecia at point of hock, RH alopecia at plantar surface, small scab and alopecia around 4 mm diameter at point of hock
- Daisy #108
  - Weight = 4.28 kg, weight 7/19/18= 4.28 kg
  - Mild prododermatitis, feet are clean and well furred, but RH has mild alopecia around 2 mm diameter at point of hock

- **Recommendations**

- All rabbits need 3-4 hours in exercise pen, once or twice a week
- Increase hay for all rabbits
- **Recheck all rabbits' feet in 2-4 weeks**
- **Will need to hang a water bottle for each side of the exercise pen**

Thanks,  
Leslie

**From:** Jarrell, Leslie  
**Sent:** Thursday, July 12, 2018 2:05 PM  
**To:** [REDACTED]

**Cc:** [REDACTED]; Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** Rabbits - Updates July 2018

Hi [REDACTED]  
Here are the exams on the rabbits;

- Tex #101
  - Weight 4.36 kg
  - Mats tail base, hind legs
  - Mild pododermatitis with small scabs on both hind feet
- Leo #102
  - Weight 4.26 kg
  - Mild pododermatitis, small scabs only on right hind foot, alopecia only on left hind foot
- Jasper #104
  - Weight 4.2 kg
  - Mats near tail base
  - Feet well furred
  - Very mild pododermatitis, alopecia on both hind feet
- Trixie #105
  - Weight 5.08 kg
  - Feet well furred

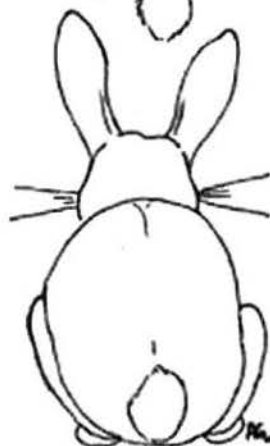
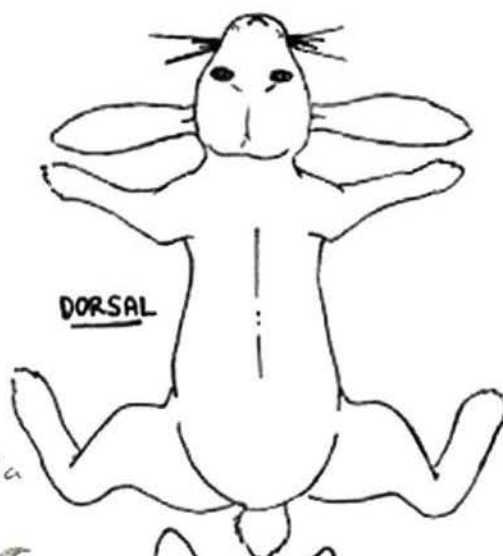


- Mild pododermatitis, small scab and alopecia left hind foot, alopecia only on right hind foot
- Dixie #106
  - Weight 4.76 kg
  - Feet well furred, clean
  - Very mild pododermatitis, alopecia on both hind feet
- Daisy #108
  - Weight = 4.28 kg
  - Hind feet were well-furred, no mats, no alopecia
- **Recommendations**
  - All rabbits need 3-4 hours in exercise pen, once or twice a week
  - Increase hay for all rabbits
  - **Recheck all rabbits' feet next week.**

Thanks,  
Leslie

# SMALL MAMMAL PATIENT EXAMINATION REPORT CARD

<b>1. Coat/Fur &amp; Skin</b> Appears normal    Dull/Dry Scaly    Scabs Infection    Shedding Matted    Tumors Itchy    Hair Loss	<b>TESTS NEEDED:</b> Annual Blood Work Urinalysis Fecal Examination Spay / Neuter Microchip Skin Scraping Fungal Culture Ear Cytology	<b>RECOMMENDATIONS:</b> Cage Change: _____ Bedding Change: Change Type Diet Change: Please see handout	Tech Initials: _____ Temp: _____ Weight: _____		
<b>2. Eyes</b> Appears Normal    Discharge Inflamed    Infection Eyelid Deformities    Ulcer: L R Cataract: L R	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> <b>Appetite:</b> normal / increased / decreased  <b>Water Intake:</b> normal / increased / decreased  <b>Coughing:</b> No / Yes, Frequency: _____  <b>Sneezing:</b> No / Yes, Frequency: _____         </td> <td style="width: 50%;"> <b>Urination:</b> normal / increased / decreased  <b>Attitude:</b> normal / abnormal  <b>Feces:</b> normal / abnormal         </td> </tr> </table>			<b>Appetite:</b> normal / increased / decreased <b>Water Intake:</b> normal / increased / decreased <b>Coughing:</b> No / Yes, Frequency: _____ <b>Sneezing:</b> No / Yes, Frequency: _____	<b>Urination:</b> normal / increased / decreased <b>Attitude:</b> normal / abnormal <b>Feces:</b> normal / abnormal
<b>Appetite:</b> normal / increased / decreased <b>Water Intake:</b> normal / increased / decreased <b>Coughing:</b> No / Yes, Frequency: _____ <b>Sneezing:</b> No / Yes, Frequency: _____	<b>Urination:</b> normal / increased / decreased <b>Attitude:</b> normal / abnormal <b>Feces:</b> normal / abnormal				
<b>3. Ears</b> Appears Normal    Inflamed: L R Dirty    Mites Tumor: L R    Infected Excessive Hair    Painful	<b>Presented For:</b> <u>Brief foot recheck only</u>  <b>Historical Issues/ Medications:</b> _____  <b>Current Diet:</b> _____  <b>Examination:</b> <u>7/19/18</u> <u>WT = 4.66 kg</u> <u>Brief recheck of feet</u> <u>RT - alopecia L ventral hock, alopecia +</u> <u>scab ~ 4 mm diameter at point of hock</u> <u>LH - alopecia at pt of hock</u> <u>(AIP) Pododermatitis mild, 1 fine in exercise pen</u> <u>per 2-4 wks</u> <u>J. Farrell DVM</u>				
<b>4. Nose</b> Appears Normal    Nasal Discharge Other: _____	<b>5. Mouth, Teeth, Gums</b> Appears Normal    Broken Teeth Tartar Buildup    Tumors Overgrown Incisors    Inflamed Lips Overgrown Molars    Periodontal Disease Overgrown roots    Abscessed				
<b>6. Legs &amp; Paws</b> Appears Normal    Joint Problems Nail Problems    Lameness Other: _____	<b>7. Heart</b> Appears Normal Slow    Fast Murmur    Irregular				
<b>8. Lungs</b> Appears Normal Abnormal Sound Rapid Respiration	<b>9. Abdomen</b> Appears Normal    Abnormal Mass Enlarged Organs    Tense/Painful Fluid    Swollen				
<b>10. Gastrointestinal System</b> Appears Normal    Abnormal Feces Stasis/ Impaction    Parasites Anorexia	<b>11. Urogenital System</b> Appears Normal    Abnormal Urination Mammary Tumors    Genital Discharge Abnormal Testicles				
<b>12. Weight</b> Normal    Obese Heavy By: _____    Thin By: _____	<b>DIAGNOSIS OR PROBLEMS</b> <u>mild pododermatitis</u>				
<b>PROGNOSIS</b> <u>monitor</u>		<b>DIFFERENTIAL DIAGNOSIS</b> <u>-</u>	<b>PLAN</b> <u>Recheck +</u> <u>exercise pen</u>		
<b>Today's Date:</b> <u>7/19/18</u> <b>Chart #:</b> <u>105</u> <b>Species/Breed:</b> <u>NZW Rabbit</u> <b>DOB:</b> <u>5/7/14</u> <b>Pet's Name:</b> <u>Tracie</u> <b>Last Name:</b> _____ <b>Color:</b> <u>white</u> <b>Sex:</b> <u>FE</u>		<b>Doctor:</b> _____ <b>Doctor's name, DVM</b> _____ <b>Need:</b> _____ <b>In:</b> _____ <b>Days</b> _____			



Natal Animal Clinic, Inc. 420 Uluolu Street, Kailua, HI 96734 808-262-9621

Trixie # 105

7/19/18

Jarrell, Leslie

---

From: Jarrell, Leslie  
Sent: Thursday, July 12, 2018 2:05 PM  
To: [REDACTED]  
Cc: [REDACTED]; Graff, Jaimie; [REDACTED]  
Subject: Rabbits - Updates July 2018

Hi [REDACTED]  
Here are the exams on the rabbits;

- Tex #101
  - Weight 4.36 kg
  - Mats tail base, hind legs
  - Mild pododermatitis with small scabs on both hind feet
- Leo #102
  - Weight 4.26 kg
  - Mild pododermatitis, small scabs only on right hind foot, alopecia only on left hind foot
- Jasper #104
  - Weight 4.2 kg
  - Mats near tail base
  - Feet well furred
  - Very mild pododermatitis, alopecia on both hind feet
- Trixie #105
  - Weight 5.08 kg
  - Feet well furred
  - Mild pododermatitis, small scab and alopecia left hind foot, alopecia only on right hind foot
- Dixie #106
  - Weight 4.76 kg
  - Feet well furred, clean
  - Very mild pododermatitis, alopecia on both hind feet
- Daisy #108
  - Weight = 4.28 kg
  - Hind feet were well-furred, no mats, no alopecia
- **Recommendations**
  - All rabbits need 3-4 hours in exercise pen, once or twice a week
  - Increase hay for all rabbits
  - **Recheck all rabbits' feet next week.**

Thanks,  
Leslie



Jarrell, Leslie

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From: Jarrell, Leslie  
Sent: Tuesday, July 10, 2018 12:25 PM  
To: [REDACTED]  
Cc: [REDACTED] Graff, Jaimie; [REDACTED]  
Subject: Rabbit exams

Hi all,  
We finished rabbit exams. I'm still worried about pododermatitis. 5/6 rabbits have some degree of alopecia on their hind feet, and 2 have small amounts of scabbing. I will send individual rabbit exam info in another email.

I think that the racks have helped some, but I think the exercise pen has helped much more. If it would be possible to make a monthly calendar to list out the rabbits' exercise pen schedule, that would be great.

Thanks,  
Leslie

**Recommendations:**

1. Increase time in exercise pen for all rabbits
  - a. Plan 2 rabbits per day in the exercise pen for 3- 4 hours
  - b. Rotate through Mon thru Friday
2. Rotate rabbits into a 2-cage "run"
  - a. The rabbit wouldn't be able to see or touch another rabbit during this limited time
  - b. More space is good for feet and activity
3. Tecniplast racks would be useful to provide opportunities for social housing, even when we have an odd number of rabbits
  - a. Powerpoint attached
4. Recommend rabbits have hay available all the time
  - a. Rotate hay types offered and increase hay quantity
5. Enrichment
  - a. Completely remove old toys, replace with completely new toys, then rotate toys
6. In exercise room, use irradiated hay from Bio-Serv only
  - a. Stuff empty cardboard glove boxes with this hay, or carrots or veg
  - b. Oxbow timothy tunnels/ huts/ mats, only in the caging room

## SMALL MAMMIL PATIENT EXAMINATION REPORT CARD

SMALL ANIMAL PHYSICIAN EXAMINATION REPORT CARD		TESTS NEEDED:		RECOMMENDATIONS:		Tech Initials: _____	
<b>1. Coat/Fur &amp; Skin</b> Appears normal Scaly Infection Matted Itchy		Dull/Dry Scabs Shedding Tumors Hair Loss		Annual Blood Work Urinalysis Fecal Examination Spay / Neuter Microchip Skin Scraping Fungal Culture Ear Cytology		Cage Change: _____  Bedding Change: Change Type  Diet Change: Please see handout	
<b>2. Eyes</b> Appears Normal Inflamed Eyelid Deformities Cataract: L R		Discharge Infection Ulcer: L R				Temp: _____  Weight: _____	
<b>3. Ears</b> Appears Normal Dirty Tumor: L R Excessive Hair		Inflamed: L R Mites Infected Painful					
<b>4. Nose</b> Appears Normal Other: _____		Nasal Discharge					
<b>5. Mouth, Teeth, Gums</b> Appears Normal Tartar Buildup Overgrown Incisors Overgrown Molars Overgrown roots		Broken Teeth Tumors Inflamed Lips Periodontal Disease Abscessed					
<b>6. Legs &amp; Paws</b> Appears Normal Nail Problems Other: _____		Joint Problems Lameness					
<b>7. Heart</b> Appears Normal Slow Murmur		Fast Irregular					
<b>8. Lungs</b> Appears Normal Abnormal Sound Rapid Respiration		Coughing Congestion Dyspnea					
<b>9. Abdomen</b> Appears Normal Enlarged Organs Fluid		Abnormal Mass Tense/Painful Swollen					
<b>10. Gastrointestinal System</b> Appears Normal Stasis/ Impaction Anorexia		Abnormal Feces Parasites					
<b>11. Urogenital System</b> Appears Normal Mammary Tumors Abnormal Testicles		Abnormal Urination Genital Discharge					
<b>12. Weight</b> Normal Heavy By: _____		Obese Thin By: _____					
<b>Appetite:</b> normal / increased / decreased <b>Water Intake:</b> normal / increased / decreased <b>Coughing:</b> No / Yes, Frequency: _____ <b>Sneezing:</b> No / Yes, Frequency: _____				<b>Urine:</b> normal / increased/decreased <b>Attitude:</b> normal / abnormal <b>Feces:</b> normal / abnormal			
Presented For: Brief foot recheck only							
Historical Issues/ Medications:							
Current Diet:							
Examination: 7/19/18 Wt = 4.66 kg Brief recheck of feet RH - alopecia L ventral hock, alopecia + scab ~ 4 mm diameter at point of hock LH - alopecia at pt of hock AIP Pododermatitis mild, ↑ time in exercise pen per 2-4 wks JDanell DM 8/9/18 Recheck feet Wt = 4.90 kg ↑ weight! LH - alopecia, red, ↑ penial exudate RH - alopecia, no scabs, red, ↑ penial exudate OK. Recheck 2-4 wks JG							
Doctor: Doctor's name, DVM Need: _____ In: _____ Days							
DIAGNOSIS OR PROBLEMS		PROGNOSIS		DIFFERENTIAL DIAGNOSIS		PLAN	
mild pododermatitis		monitor		-		Recheck + ↑ exercise pen	
Today's Date: 7/19/18		Chart #: 105		Species/Breed: NZW Rabbit		DOB: 5/7/14	
Pet's Name: Ivixie		Last Name: [redacted]		Color: white		Sex: FE	



# SMALL MAMM L PATIENT EXAMINATION REPORT CARD

<b>1. Coat/Fur &amp; Skin</b> Appears normal Dull/Dry Sealy Scabs Infection Shedding Matted Tumors Itchy Hair Loss		<b>TESTS NEEDED:</b> Annual Blood Work Urinalysis Fecal Examination Spay / Neuter Microchip Skin Scraping Fungal Culture Ear Cytology		<b>RECOMMENDATIONS:</b> Cage Change: Bedding Change: Change Type Diet Change: Please see handout		Tech Initials: Temp: Weight: 5.08kg	
<b>2. Eyes</b> Appears Normal Inflamed Eyelid Deformities Cataract: L R		<b>3. Ears</b> Appears Normal Dirty Tumor: L R Excessive Hair		<b>4. Nose</b> Appears Normal Other:		<b>5. Mouth, Teeth, Gums</b> Appears Normal Tartar Buildup Overgrown Incisors Overgrown Molars Overgrown roots	
<b>6. Legs &amp; Paws</b> Appears Normal Nail Problems Other:		<b>7. Heart</b> Appears Normal Slow Murmur		<b>8. Lungs</b> Appears Normal Abnormal Sound Rapid Respiration		<b>9. Abdomen</b> Appears Normal Enlarged Organs Fluid	
<b>10. Gastrointestinal System</b> Appears Normal Stasis/ Impaction Anorexia		<b>11. Urogenital System</b> Appears Normal Mammary Tumors Abnormal Testicles		<b>12. Weight</b> Normal Heavy By:		<b>13. Weight</b> 5.08kg Obese Thin By:	
<b>Appetite:</b> <b>Water Intake:</b> <b>Coughing:</b> <b>Sneezing:</b>		normal / increased / decreased normal / increased / decreased No / Yes, Frequency: No / Yes, Frequency:		<b>Urination:</b> <b>Attitude:</b> <b>Feces:</b>		normal / increased / decreased normal / abnormal normal / abnormal	
Presented For: Annual exam							
Historical Issues/ Medications: None							
Oral exam w/ otoscope NE dlt lack of sensitivity Radiographs NOT Available. Current Diet: Purina Lab Diet HiFiber pellets, limited Amt. + Loose Oxbow timothy or orchard grass hay, fresh veg + irradiated timothy hay							
Examination: BARH. Cautious temperament but ok for exam EEN clear. MM pit moist. HR 220 no murmurs or arrhythmia, Rf Sniffing, Lungs clear, LN w/							
Abd soft, no masses obvious							
LH RH Feet are furred but alopecia mild pododermatitis							
mat directly at tail base - may need to clip							
(A) Appears healthy except pododermatitis (P) 1 time in exercise pen Z. Ganell							
Doctor: Doctor's name, DVM Need: Feb 6-8 In: weeks Days							
DIAGNOSIS OR PROBLEMS		PROGNOSIS		DIFFERENTIAL DIAGNOSIS		PLAN	
pododermatitis, mild		good to fair		—		Exercise pen time	
Today's Date: 5/24/18		Chart #: 105		Species/Breed: Rabbit / NZW		DOB: 5/7/14	
Pet's Name: Trixie		Last Name: [REDACTED]		Color: white		Sex: FE	

Trixie

Trixie

Jarrell, Leslie

---

From: Jarrell, Leslie  
Sent: Thursday, February 01, 2018 4:02 PM  
To: [REDACTED]  
Cc: [REDACTED]; Graff, Jaimie; [REDACTED]  
Subject: RE: Rabbits- Updates from Feb 1

Hi [REDACTED]  
Rechecks:

- Oopsie
  - Right hind foot – Fur was very good this week, actually fluffy
  - Still mild alopecia at the point of the heel
  - Recheck 2- 4 weeks

Diet updates:

- Rabbits are continuing on timothy hay or bermudagrass hay daily
- Rabbit pellets continuing the same as usual
- Other rabbits may get a little alfalfa hay as a treat, in addition to other hay, once in a while

Exercise pen update:

- [REDACTED] is planning to change the pen a little, we will see how the panels work
- Digging box- still looking for one. Think I have an idea on how to make one.
- I put together a small cardboard burn box on its side, and Daisy went right in!

Thanks,  
Leslie



**Jarrell, Leslie**

---

**From:** Jarrell, Leslie  
**Sent:** Tuesday, January 16, 2018 10:50 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]; Graff, Jaimie; [REDACTED]  
**Subject:** RE: Rabbits- Updates from Jan 11

Hi [REDACTED]  
Rechecks:

- Oopsie
  - Right hind foot – Fur was very good this week, actually fluffy
  - Still mild alopecia at the point of the heel
  - Recheck 2- 4 weeks
  - It would be good to have him stay longer times, or more often, in the exercise pen

Diet updates:

- Rabbits are continuing on timothy hay or bermudagrass hay daily
- Rabbit pellets continuing the same as usual
- Thumper only is on alfalfa hay, in addition to timothy hay
  - Has gained a little weight! Seems to be due to the alfalfa, as nothing else has changed
  - Will try Cosequin on a piece of lettuce first instead
    - He already likes lettuce
    - Al thinks Thumper will eat the entire leaf
    - We will mix the Cosequin powder with water, into a paste, and put it on the lettuce.
- Other rabbits may get a little alfalfa hay as a treat, in addition to other hay, once in a while

Exercise pen update:

- [REDACTED] is planning to split the pen in 2 sections with an additional fence section that is downstairs, so the rabbits could be in the pen at the same time without issues
- Digging box- still pending
  - Find some “clean” cardboard to make a “digging box”
  - Fill with envirodri for digging
- [REDACTED] got some small, new, cardboard burn boxes to put together as climbing and hiding objects for the pen!

Thanks,  
Leslie

**Jarrell, Leslie**

---

From: Jarrell, Leslie  
Sent: Tuesday, January 09, 2018 4:37 PM  
To: [REDACTED]  
Cc: [REDACTED]; Graff, Jaimie; [REDACTED]  
Subject: RE: Rabbits- Updates from Dec 28

Hi [REDACTED]  
Rechecks;

- Oopsie
  - Right hind foot – Fur was very good this week, actually fluffy.
  - Oopsie still has mild alopecia at the point of the heel
  - Recheck 2- 4 weeks
  - It would be good to have him stay longer times, or more often, in the exercise pen.
- Daisy
  - Right hind foot- small alopecia area at point of right hock
  - Well furred and clean feet

Diet updates;

- Rabbits are continuing on timothy hay or bermudagrass hay daily
- Rabbit pellets continuing the same as usual
- Thumper only is on alfalfa hay, in addition to timothy hay, on a set schedule
  - To increase calories and fat intake
  - I am still planning for this. I'm going to get some small paper plates to feed him critical care rabbit feed. It is like a slurry of hay with licorice flavor. If he likes it, I'll start the Cosequin in it. If not, I'll try carrot baby food.
- Other rabbits may get a little alfalfa hay as a treat, in addition to other hay, once in a while

Exercise pen update;

- [REDACTED] is planning to split the pen in 2 sections with an additional fence section that is downstairs, so the rabbits could be in the pen at the same time without issues
- Digging box- still pending
  - Find some "clean" cardboard to make a "digging box"
  - Fill with envirodri for digging
- [REDACTED] got some small, new, cardboard burn boxes to put together as climbing and hiding objects for the pen!

Thanks,  
Leslie

Jarrell, Leslie

---

From: Jarrell, Leslie  
Sent: Thursday, December 14, 2017 12:21 PM  
To: [REDACTED]  
Cc: [REDACTED] Graff, Jaimie; [REDACTED]  
Subject: RE: Rabbits- Updates from Dec 14

Tryie

Hi [REDACTED]  
Rechecks;

- Oopsie
  - Right hind foot – Fur was even cleaner this week, than at last check! Fur was fluffy and white to tan.
  - [REDACTED] was able to get 1 very small small mat off the right hind foot
    - Oopsie still has mild alopecia at the point of the heel
  - Recheck 2- 4 weeks
  - It would be good to have him stay longer times, or more often, in the exercise pen.
- Daisy
  - Right hind foot- small alopecia area at point of right hock
  - Well furred and clean feet

Diet updates;

- Rabbits are continuing on timothy hay or bermudagrass hay daily
- Rabbit pellets continuing the same as usual
- Thumper only is starting on alfalfa hay, in addition to timothy hay, on a set schedule
  - To increase calories and fat intake
  - I will make up some critical care rabbit feed to see if he will eat it. It is like a slurry of hay with licorice flavor, intended for rabbits that need to be syringe fed. If he likes it, I'll start the Cosequin in it. If not, I'll try carrot baby food.
- Other rabbits may get a little alfalfa hay as a treat, in addition to other hay, once in a while

Exercise pen update;

- [REDACTED] is planning to split the pen in 2 sections with an additional fence section that is downstairs, so the rabbits could be in the pen at the same time without issues
- Digging box- still pending
  - Find some "clean" cardboard to make a "digging box"
  - Fill with envirodri for digging
- [REDACTED] got some small, new, cardboard burn boxes to put together as climbing and hiding objects for the pen!

Thanks,  
Leslie

**Jarrell, Leslie**

---

**From:** Jarrell, Leslie  
**Sent:** Thursday, December 07, 2017 4:32 PM  
**To:** [REDACTED]  
**Subject:** RE: Rabbits  
**Attachments:** Rabbit hay schedule.docx

Thanks! I'll pop by tomorrow.

And I made a new easier schedule! Well I think it is a little easier?

It basically slowly increases alfalfa hay during M-F only. No weekends or holidays. Then mid-January, start adding a little alfalfa over weekends depending on how it goes.

And all rabbits should get 3 big handfuls of timothy every day.

Thanks,  
Leslie

-----Original Message-----

**From:** [REDACTED]  
**Sent:** Thursday, December 07, 2017 12:45 PM  
**To:** [REDACTED] Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Subject:** RE: Rabbits

(Leslie) I ran off several copies from your feeding proposal and gave them to him. I don't think he wants another schedule he just has a couple of questions regarding what he already has. I told him to get with you the next time he sees you to clarify.

---

**From:** [REDACTED]  
**Sent:** Thursday, December 7, 2017 12:39 PM  
**To:** Jarrell, Leslie  
**Cc:** [REDACTED]  
**Subject:** Rabbits

Hi Leslie,

[REDACTED] would like to know if you could please create a feeding schedule for the rabbits. He's aware of the new regimen, but want to make sure he is following the right plan.

Thanks.



## Rabbit Hay Schedule 12/07/17

### Thumper

- 3 handfuls timothy or Bermuda grass daily
- Add in Alfalfa hay;
  - Monday 12/11/17- Fri 12/15/17. Half handful of alfalfa hay per day
  - Monday 12/18/17- Fri 12/22/17. 1 handful of alfalfa hay per day
  - Tues 12/26/17- Fri 12/29/17. 1 handful of alfalfa hay per day
  - Tues 01/02/18- Fri 01/05/18. 2 handful of alfalfa hay per day
  - Mon 01/08/18- Fri 01/12/18. 2 handfuls of alfalfa hay per day
  - Sat 1/13/18; Start 1 handful alfalfa hay per day on weekends
  
  - Continue weekdays- 2 handful alfalfa hay
  - Weekends- only 1 handful alfalfa hay

### For all other rabbits-

3 handfuls regular hay daily

Jarrell, Leslie

---

From: Jarrell, Leslie  
Sent: Monday, December 04, 2017 10:33 AM  
To: [REDACTED]  
Cc: [REDACTED]; Graff, Jaimie; [REDACTED]  
Subject: RE: Rabbits- Updates from Nov 27

Trixie

Hi [REDACTED]

Rechecks:

- Oopsie
  - Right hind foot – Fur was much cleaner this week, still has alopecia at the point of the heel
  - Recheck 2- 4 weeks
  - It would be good to have him stay longer times, or more often, in the exercise pen.

Exercise pen update:

- [REDACTED] had a good idea to split the pen in 2 sections so the rabbits could be in the pen at the same time without issues
- Digging box- still pending
  - Find some “clean” cardboard to make a “digging box”
  - Fill with envirodri for digging
- [REDACTED] got some small, new, cardboard burn boxes to put together as climbing and hiding objects for the pen

Thanks,  
Leslie

## Jarrell, Leslie

---

From: Jarrell, Leslie  
Sent: Monday, November 13, 2017 5:17 PM  
To: [REDACTED]  
Cc: [REDACTED] Graff, Jaimie; [REDACTED]  
[REDACTED]

*Trixie*

Subject: Rabbits- Updates from Nov 13

Follow Up Flag: Follow up  
Flag Status: Completed

Hi [REDACTED]

### Rechecks:

- Oopsie
  - Right hind foot – Still has dirty fur on same spot, no ulceration at that spot, and a ~5 mm diameter scab area at the point of the heel
    - [REDACTED] was able to get some of the fur brushed out
  - Recheck ~1.5- 2 weeks
  - It may be good to have him stay longer in the exercise pen.
- Daisy
  - Both hind feet were well-furred
  - Scabs and scratches on both sides of her neck behind her ears
    - Have healed
      - Considering keeping them separated due to the aggression
  - Recheck feet ~1 month

### Exercise pen update:

- All rabbits will now be in the exercise pen alone
- Digging box- pending
  - Find some “clean” cardboard to make a “digging box”
  - Fill with envirodri for digging
- Looking for a bunch of large, clean (haven’t gone through mail) cardboard boxes for hiding/ chewing inside pen

Thanks,  
Leslie

From: Jarrell, Leslie  
Sent: Friday, October 27, 2017 1:43 PM  
To: [REDACTED]  
Cc: [REDACTED] Graff, Jaimie; [REDACTED]  
Subject: Rabbits- Updates from Oct 26-27

Hi [REDACTED]

Rechecks:

- Oopsie
  - Much improved
  - Right hind foot - Mainly seems to be dirty fur now, no obvious mat
    - [REDACTED] was able to get some of the fur brushed out
  - No scabs on either hind feet! Only alopecia. This is a significant improvement.
  - Recheck 2 weeks
- Daisy
  - Did not recheck feet
  - Scabs and scratches on both sides of her neck behind her ears
    - Healing up very well
    - Separated into their own sides of the double wide cage
      - Will watch and hope that we can re-house them together again after Daisy heals up
  - Recheck 2 weeks
- Leo and Tex
  - Minor scuffle in exercise pen, no obvious injuries
  - Will now go in the pen alone

Exercise pen update:

[REDACTED] reported that the rabbits are doing well in the pen.

- All rabbits will now be in the exercise pen alone, and not co-housed
- Digging box- pending
  - Find some "clean" cardboard to make a "digging box"
  - Fill with envirodri for digging
- Looking for a bunch of large, clean (haven't gone through mail) cardboard boxes for hiding/ chewing inside pen

Thanks,  
Leslie



Jarrell, Leslie

*Trixie*

**From:** Jarrell, Leslie  
**Sent:** Thursday, October 19, 2017 3:08 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** RE: Rabbit feet - Updates from Oct 19

Hi [REDACTED]

Rechecks;

- Oopsie
  - Much improved
  - Right hind foot mat- [REDACTED] was able to get most of it out!
  - Left hind foot - only has one point of hock area with small scab/ alopecia
  - Recheck next week
- Daisy
  - Hind feet were well-furred, but dirty, no mats, small areas of alopecia at the point of hock
  - Scabs and scratches on both sides of her neck behind her ears
    - Looked like bites, thinking Trixie has bitten her
    - Separated into their own sides of the double wide cage
      - Will watch and hope that we can re-house them together again after Daisy heals up
  - Recheck next week

Exercise pen update;

[REDACTED] reported that the rabbits are doing well.

- He noted that they sleep once they get back to their home cage!
- Am thinking of using a litter pan tray (the ones currently under the rabbits) as a litter box, with some rabbit pelleted food and hay in it
- Digging box- pending
  - Find some "clean" cardboard to make a "digging box"
  - Fill with envirodri for digging
- We are looking at putting some of the brown cardboard paper liners in the hay box
- Litter box- pending
- Looking for a bunch of large, clean (haven't gone through mail) cardboard boxes for hiding/ chewing inside pen

Thanks,  
Leslie

**From:** Jarrell, Leslie  
**Sent:** Thursday, October 12, 2017 11:06 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie  
<Graff.Jaimie@epa.gov>; [REDACTED]  
[REDACTED]  
**Subject:** RE: Rabbit feet - Updates from Oct 12

Hi [REDACTED]

We rechecked Oopsie today. Daisy will be next week, as she just had a bath.

Oopsie: Did great with recheck. He is very personable. His right hind foot mat was much improved from last week. [REDACTED] and I were able to brush out the mat further. [REDACTED] was able to remove a large piece of the mat without trimming any good clean fur. We will keep working at it. We will continue topical silvadene as possible during the week. Oopsie's time in the exercise pen will be increased slightly as well.

Rechecks:

We will recheck Daisy and Oopsie again next week. If Oopsie continues to improve, I will not plan to anesthetize him. I'd like to avoid that if possible.

Exercise pen update:

[REDACTED] reported that the rabbits are doing well in the pen.

- He noted that they are more active back in their cages for some time even after their exercise day.
- I sat with Trixie and Daisy during part of their time in the pen. Trixie did a few leaps in the air while going around the pen- that was good to see.
- The rabbits are digging in the corners.
  - [REDACTED] is going to look at getting a few disposable cardboard cat litter boxes, in case the rabbits may want to use them as a litter box
  - Also may try to find some "clean" cardboard to make a "digging box" as additional enrichment
  - Doesn't look very difficult and some envirodri would work great to fill it



- <http://bunnyproof.com/how-to/how-to-make-a-digging-box-for-your-rabbit>

- The hay box did not look too slippery to me, but Oopsie did not like it!
  - We are looking at putting some of the brown cardboard paper liners in the hay box and see if that is more to his liking.

Thanks,  
Leslie

From: Jarrell, Leslie

Sent: Friday, October 06, 2017 2:42 PM

To: [REDACTED]

Cc: [REDACTED] Graff, Jaimie

<Graff.Jaimie@epa.gov>; [REDACTED]

Jarrell, Leslie

*Trixie*

From: Jarrell, Leslie  
Sent: Thursday, October 19, 2017 3:08 PM  
To: [REDACTED]  
Cc: [REDACTED] Graff, Jaimie; [REDACTED]  
Subject: RE: Rabbit feet - Updates from Oct 19

H [REDACTED]

Rechecks:

- Oopsie
  - Much improved
  - Right hind foot mat- [REDACTED] was able to get most of it out!
  - Left hind foot - only has one point of hock area with small scab/ alopecia
  - Recheck next week
- Daisy
  - Hind feet were well-furred, but dirty, no mats, small areas of alopecia at the point of hock
  - Scabs and scratches on both sides of her neck behind her ears
    - Looked like bites, thinking Trixie has bitten her
    - Separated into their own sides of the double wide cage
      - Will watch and hope that we can re-house them together again after Daisy heals up
  - Recheck next week

Exercise pen update:

[REDACTED] reported that the rabbits are doing well.

- He noted that they sleep once they get back to their home cage!
- Am thinking of using a litter pan tray (the ones currently under the rabbits) as a litter box, with some rabbit pelleted food and hay in it
- Digging box- pending
  - Find some "clean" cardboard to make a "digging box"
  - Fill with envirodri for digging
- We are looking at putting some of the brown cardboard paper liners in the hay box
- Litter box- pending
- Looking for a bunch of large, clean (haven't gone through mail) cardboard boxes for hiding/ chewing inside pen

Thanks,  
Leslie

From: Jarrell, Leslie  
Sent: Thursday, October 12, 2017 11:06 AM  
To: [REDACTED]  
Cc: [REDACTED] Graff, Jaimie  
<Graff.Jaimie@epa.gov>; [REDACTED]  
Subject: RE: Rabbit feet - Updates from Oct 12

[REDACTED]  
**Subject:** RE: Rabbit feet - Updates from Oct 5

Hi [REDACTED]

We rechecked 2 of the rabbits. Wanted to give them a little time in the exercise pen before we rechecked. We will check Daisy next week.

Oopsie; Did great with recheck. His right hind foot mat and the scab looks a little more extensive than last time. We were able to brush out the mat a little. He continued to clean it once back in his cage. We will keep working at it. We started topical silvadene, just during the week.

Thumper; He is a good rabbit. He has mild, linear alopecia on both hind feet, and the remaining scabs at the point of the hock are pinpoint, so much improved.

We will recheck Daisy next week. We will recheck Oopsie next Wed or Thurs. Depending on how his foot looks, I may want to anesthetize him and really clean the mat out possibly. Will let you know how he looks next week, and plan out if we need to anesthetize him.

Thanks,  
Leslie

**From:** Jarrell, Leslie

**Sent:** Thursday, September 07, 2017 2:25 PM

**To:** [REDACTED]

**Cc:** [REDACTED] Graff, Jaimie  
<Graff.Jaimie@epa.gov>; [REDACTED]

**Subject:** Rabbit feet - updates from Sept 7

Hi [REDACTED]

[REDACTED] and I rechecked the rabbits today. I brushed out Oopsie's foot a little. He was not thrilled about it, but did OK. He still has a mat on his right hind foot, it is about the same. The small scab on the point of the hock appears unchanged.

Daisy has a mat again, this time on her left hind foot on the ventral surface. Also, she has a small scab on the point of the hock. She has some alopecia on her right hind foot. She did pretty well with the exam but I did not attempt to brush her.

And Thumper. He is a good rabbit. He has linear alopecia on both hind feet, and also some scabs as well.

We will recheck everyone in about 2 weeks. Hopefully will get the floor pen up soon as well.

Thanks,  
Leslie



Jarrell, Leslie

Trixie

From: Jarrell, Leslie  
Sent: Thursday, October 12, 2017 11:04 AM  
To: [REDACTED]  
Cc: [REDACTED] Graff, Jaimie; [REDACTED]  
Subject: RE: Rabbit feet - Updates from Oct 12

Hi [REDACTED]  
We rechecked Oopsie today. Daisy will be next week, as she just had a bath.

Oopsie: Did great with recheck. He is very personable. His right hind foot mat was much improved from last week. [REDACTED] and I were able to brush out the mat further. [REDACTED] was able to remove a large piece of the mat without trimming any good clean fur. We will keep working at it. We will continue topical silvadene as possible during the week. Oopsie's time in the exercise pen will be increased slightly as well.

Rechecks:

We will recheck Daisy and Oopsie again next week. If Oopsie continues to improve, I will not plan to anesthetize him. I'd like to avoid that if possible.

Exercise pen update:

[REDACTED] reported that the rabbits are doing well in the pen.

- He noted that they are more active back in their cages for some time even after their exercise day.
- I sat with Trixie and Daisy during part of their time in the pen. Trixie did a few leaps in the air while going around the pen- that was good to see.
- The rabbits are digging in the corners.
  - [REDACTED] is going to look at getting a few disposable cardboard cat litter boxes, in case the rabbits may want to use them as a litter box
  - Also may try to find some "clean" cardboard to make a "digging box" as additional enrichment
  - Doesn't look very difficult and some envirodri would work great to fill it



[http://bunnyproof.com/how-to/how-to-](http://bunnyproof.com/how-to/how-to-make-a-digging-box-for-your-rabbit)

- make-a-digging-box-for-your-rabbit
- The hay box did not look too slippery to me, but Oopsie did not like it!
  - We are looking at putting some of the brown cardboard paper liners in the hay box and see if that is more to his liking.

Thanks,  
Leslie

**From:** Jarrell, Leslie

**Sent:** Friday, October 06, 2017 2:42 PM

**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie  
<Graff.Jaimie@epa.gov>; [REDACTED]  
[REDACTED]

**Subject:** RE: Rabbit feet - Updates from Oct 5

Hi [REDACTED]

We rechecked 2 of the rabbits. Wanted to give them a little time in the exercise pen before we rechecked. We will check Daisy next week.

Oopsie; Did great with recheck. His right hind foot mat and the scab looks a little more extensive than last time. We were able to brush out the mat a little. He continued to clean it once back in his cage. We will keep working at it. We started topical silvadene, just during the week.

Thumper; He is a good rabbit. He has mild, linear alopecia on both hind feet, and the remaining scabs at the point of the hock are pinpoint, so much improved.

We will recheck Daisy next week. We will recheck Oopsie next Wed or Thurs. Depending on how his foot looks, I may want to anesthetize him and really clean the mat out possibly. Will let you know how he looks next week, and plan out if we need to anesthetize him.

Thanks,  
Leslie

**From:** Jarrell, Leslie

**Sent:** Thursday, September 07, 2017 2:25 PM

**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie  
<Graff.Jaimie@epa.gov>; [REDACTED]  
[REDACTED]

**Subject:** Rabbit feet - updates from Sept 7

Hi [REDACTED]

[REDACTED] and I rechecked the rabbits today. I brushed out Oopsie's foot a little. He was not thrilled about it, but did OK. He still has a mat on his right hind foot, it is about the same. The small scab on the point of the hock appears unchanged.

Daisy has a mat again, this time on her left hind foot on the ventral surface. Also, she has a small scab on the point of the hock. She has some alopecia on her right hind foot. She did pretty well with the exam but I did not attempt to brush her.

And Thumper. He is a good rabbit. He has linear alopecia on both hind feet, and also some scabs as well.

We will recheck everyone in about 2 weeks. Hopefully will get the floor pen up soon as well.

Jarrell, Leslie

Trixie

**From:** Jarrell, Leslie  
**Sent:** Wednesday, June 14, 2017 10:50 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Rabbit Toys

Thanks. My goal is that rabbits always have hay in with them. Even if they don't eat it all. We will start slow to get there.

Thanks.

**From:** [REDACTED]  
**Sent:** Wednesday, June 14, 2017 10:49 AM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Cc:** [REDACTED]  
**Subject:** RE: Rabbit Toys

Ok, thanks. He wanted to check in with you before he starts. I will let him know.

**From:** Jarrell, Leslie  
**Sent:** Wednesday, June 14, 2017 10:47 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Rabbit Toys

[REDACTED]

- If the new toys are washable, then washing would be good
- New hay
  - Per rabbit;
    - Mon June 19- Sun June 25
      - Give 1 handful new hay and 1 handful old hay in morning
      - Don't take any out
    - Mon June 26 – Sun July 2
      - Give 2 handfuls new hay and 1 handful old hay in morning
      - Don't take any out
    - Mon July 3- Sun July 9
      - Give 3 handfuls new hay in morning
      - Don't take any out

Thanks,  
Leslie

**From:** [REDACTED]  
**Sent:** Wednesday, June 14, 2017 9:39 AM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Cc:** [REDACTED]  
**Subject:** Rabbit Toys



Leslie,

■ would like to know the plan for the new rabbit toys and hay. He was thinking maybe we could start on Monday, so he'll be able to monitor their progress all week long. Also, does he need to wash the toys?

Thanks.

**From:** Jarrell, Leslie  
**Sent:** Wednesday, May 24, 2017 10:52 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** Oopsie the rabbit and overall rabbit exams

Hi [REDACTED]

We finished our rabbit exams today. Only a few concerns. One is Oopsie. He has some matted fur on both of his hind feet. He has a few other mats as well, but the feet make me the most worried. I will send more emails specifically on each rabbit in addition to this one.

My recommendation is to anesthetize Oopsie tomorrow early afternoon with [REDACTED] and try to clean and brush out the mats on his feet. If I can't brush them out, I will have to clip the matted fur off. I absolutely would hate to do that. That is the only protection for his feet. However they are dirty and matted, and in that condition they are nearly as bad as having very thin fur.

Oopsie is a young rabbit. It is alarming that he is not grooming his feet properly. This can be due to obesity (he's not, in my opinion), or lack of exercise, or due to flooring, or a combination. I personally think that the racks are good, but clearly still he has issues.

To address this issue, I'd like to discuss these options with Ned when he is back, and [REDACTED] as well. Some options;

- Keep Oopsie in the exercise pen for a day or more at a time
  - This would be if he doesn't escape or hurt himself while in the pen
  - And if he could have some sort of cover on the non-slip floor, so he doesn't eat the floor mats
  - I'd recommend a giant piece of thick fleece to cover the floor mat, if he doesn't eat the fleece
- Rotate Oopsie into a 2-cage "run" in the rack
  - He wouldn't be able to see or touch another rabbit during this time
    - But we could do a few days alone in a 2 cage "run", then back to half a run with social contact
  - We could do this with all the rabbits, so they'd rotate through a larger cage once a month or so, good for exercise theoretically
- Train all rabbits to use litter boxes (plastic or cardboard, filled with hay, cat litter boxes)
  - In this way, we could cover some of the flooring with a solid floor of some kind
    - Possibly a foam mat with fleece covering
  - This would probably be a good idea no matter what
- Keep Oopsie continually on a thick layer of hay in his cage, over the regular flooring
  - Problems with this; we would need to clean the hay frequently if he is not using a litter box
    - Otherwise he will stay dirty

Other issues;

- Both Trixie and Daisy are obese, and are continually gaining weight
  - I'd recommend to decrease their pellets and increase their hay
  - Would recommend that they have hay available all the time
- Rotate hay types offered and increase hay quality and quantity for all rabbits
  - Would recommend they have hay available all the time
- Rotate all toys
- Offer new toys
  - Discussed with [REDACTED] stuffing empty cardboard glove boxes with hay, or carrots
  - Also paper towel rolls stuffed with hay

- Maybe rat tunnels or tubes, they can throw them around
- Stuff the Kongs with hay
- Oxbow timothy tunnels/ huts/ mats etc
  - They can't get into the tunnels but can throw them around
  - And they are 100% edible made of timothy hay

Please let me know your thoughts?

Thanks very much,

Leslie

# SMALL MAMMAL PATIENT EXAMINATION REPORT CARD

<b>1. Coat/Fur &amp; Skin</b> <u>Appears normal</u> Dull/Dry Scaly Infection Matted Itchy Tumors Shedding Hair Loss	<b>TESTS NEEDED:</b> <input type="checkbox"/> Annual Blood Work <input type="checkbox"/> Urinalysis <input type="checkbox"/> Fecal Examination <input type="checkbox"/> Spay / Neuter <input type="checkbox"/> Microchip <input type="checkbox"/> Skin Scraping <input type="checkbox"/> Fungal Culture <input type="checkbox"/> Ear Cytology	<b>RECOMMENDATIONS:</b> Cage Change: <u>weekly</u> Bedding Change: <u>Change Type</u> <u>N/A</u> Diet Change: Please see handout	Tech Initials: _____ Temp: <u>NT</u> Weight: <u>5.20 kg</u> <u>5/22/17</u>
<b>2. Eyes</b> <u>Appears Normal</u> Inflamed Eyelid Deformities Cataract: L R Discharge Infection Ulcer: L R	<b>Appetite:</b> <u>normal</u> / increased / decreased <b>Water Intake:</b> <u>normal</u> / increased / decreased <b>Coughing:</b> <u>No</u> / Yes, Frequency: _____ <b>Sneezing:</b> <u>No</u> / Yes, Frequency: _____ <b>Urination:</b> <u>normal</u> / increased/decreased <b>Attitude:</b> <u>normal</u> / abnormal <b>Feces:</b> <u>normal</u> / abnormal		
<b>3. Ears</b> <u>Appears Normal</u> Dirty Tumor: L R Excessive Hair Inflamed: L R Mites Infected Painful	Presented For: <u>Annual</u>		
<b>4. Nose</b> <u>Appears Normal</u> Other: _____ Nasal Discharge	Historical Issues/ Medications: <u>none</u>		
<b>5. Mouth, Teeth, Gums</b> <u>Appears Normal</u> Tartar Buildup Overgrown Incisors Overgrown Molars Overgrown roots Broken Teeth Tumors Inflamed Lips Periodontal Disease Abscessed	Current Diet: <u>1-2 handful grass hay SID-BID, rabbit pellets (alfalfa), fresh veg daily</u>		
<b>6. Legs &amp; Paws</b> <u>Appears Normal</u> Nail Problems Other: _____ Joint Problems Lameness	<b>Examination:</b> <u>(SID)</u> HR 180 RR 20 <u>NO</u> murmurs <u>Very big rabbit. No arthrogryposis</u> <u>MM pi + moist CT 1 sec. abd soft</u> <u>no masses palpated</u> <u>(AIP) Appears healthy. Res ~ 1 yr</u> <u>2 Janell DM</u>		
<b>7. Heart</b> <u>Appears Normal</u> Slow Murmur Fast Irregular	Doctor: Doctor's name, DVM Need: _____ In: _____ Days		
<b>8. Lungs</b> <u>Appears Normal</u> Abnormal Sound Rapid Respiration Coughing Congestion Dyspnea	DIAGNOSIS OR PROBLEMS <u>appears healthy</u>		
<b>9. Abdomen</b> <u>Appears Normal</u> Enlarged Organs Fluid Abnormal Mass Tense/Painful Swollen	PROGNOSIS <u>good</u>		
<b>10. Gastrointestinal System</b> <u>Appears Normal</u> Stasis/ Impaction Anorexia Abnormal Feces Parasites	DIFFERENTIAL DIAGNOSIS <u>-</u>		
<b>11. Urogenital System</b> <u>Appears Normal</u> Mammary Tumors Abnormal Testicles Abnormal Urination Genital Discharge	PLAN <u>Res ~ 1 yr or prn</u>		
<b>12. Weight</b> <u>OK</u> Normal Heavy By: _____ Obese Thin By: _____	Today's Date: <u>5/23/17</u> Chart #: <u>105</u> Species/Breed: <u>Rabbit / N.E.W</u> DOB: <u>5/7/14</u> Pet's Name: <u>105 Trixie</u> Last Name: _____ Color: <u>white</u> Sex: <u>FE</u>		



Jarrell, Leslie

*Trixie*

**From:** Jarrell, Leslie  
**Sent:** Tuesday, October 25, 2016 10:53 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Timothy Hay Mats

Thanks [REDACTED] For Peter rabbit, if he can have one on the floor. We will see how he does.

It would be great if all the rabbits had mats, but the rest of them don't need one on the floor. It can be hung up on the bar or something so they could grab it. Like extra enrichment. Could remove keys or other hanging stuff so they get more variety. Also Peter could have one hanging if there is room.

We should be up to all of the rabbits getting 3 handfuls/ day of hay daily, if that could be confirmed. Also the Oxbow hay looks really good. Much softer and less stems/ heads. I'd recommend to buy the timothy from Oxbow as well.

Thanks,  
Leslie

**From:** [REDACTED]  
**Sent:** Tuesday, October 25, 2016 10:50 AM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>  
**Cc:** [REDACTED]  
**Subject:** Timothy Hay Mats

Hi Leslie,

The Timothy hay mats arrived today for the rabbits. Would you like for ACS to put them in all of the cages or just for Peter?

Thanks,

Jarrell, Leslie

*Trixie*

**From:** Jarrell, Leslie  
**Sent:** Wednesday, September 28, 2016 11:51 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** RE: AHR# 16132- update 092816- increase hay again and plan

Hi, All rabbits were eating hay this morning. That is good to see. [REDACTED] and I checked Thumper again. He appears to be losing less fur, does not have alopecia, and is active and bright. Weight appears steady.

A: Appears to have had heavy shed.

P: Continue plan to increase hay. Currently getting hay morning and afternoon.

1. 3<sup>rd</sup> week (This week - Sept 26) offer 2 handfuls of hay morning and afternoon. During weekend, give 3 handfuls in the morning.
2. 4<sup>th</sup> week- week of Oct 3- offer 3 handfuls hay morning and 2 in afternoon. During weekend, give 3 handfuls hay in the morning.
3. We will need more hay.

Thanks,  
Leslie

**From:** Jarrell, Leslie  
**Sent:** Monday, September 12, 2016 10:22 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: AHR# 16132- increase hay please respond

Thanks [REDACTED] Will let you know how it goes!  
Thanks,  
Leslie

**From:** [REDACTED]  
**Sent:** Monday, September 12, 2016 10:16 AM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: AHR# 16132- increase hay please respond

Sounds good.  
We all need a little extra lovin as we age

■

**From:** Jarrell, Leslie

**Sent:** Monday, September 12, 2016 10:14 AM

**To:** [REDACTED]

[REDACTED]

**Cc:** [REDACTED]

[REDACTED]

**Subject:** RE: AHR# 16132- increase hay please respond

Hi [REDACTED]

[REDACTED] and I examined Thumper this morning. [REDACTED] reported that Thumper is eating well, defecating normally, has not had weight loss or ambulation issues. Thumper is 8.5 years old.

O: Weight appears steady, consistent with his regular body weight. Thumper is bright, alert, responsive and hydrated. No lameness or reluctance to hop. He is a personable and social rabbit. No obvious lesions or masses on physical exam. Hind feet appear furred. Did not do oral exam as he often resists. He is losing a large amount of fur, especially in comparison to all the other rabbits including Peter, who is the same age. He has some spots which appear slightly thin but no obvious alopecia.

A: DDX; open. Suspect related to seasonal fur loss and is having a very heavy shed. Or potentially he is having issues grooming- Although the coat is very clean. Differentials; open.

P: Since Thumper has not had weight loss, behavioral changes or ambulation issues, and appears to be eating well and defecating normally, recommend;

1. Increase brushing and remove all hair that is shed from cage so he doesn't eat it all.
2. Increase hay offered. Since all rabbits get one handful hay/ day, recommend to increase hay for all rabbits.
3. Plan for all rabbits; Offer 1 handful hay twice a day for 1 week. During the weekend, give 2 handfuls in the morning.
  - a. Next week (week of Sept 19); offer 2 handful hay in morning and 1 handful afternoon for a week. During weekend, give 3 handfuls in the morning
  - b. 3<sup>rd</sup> week (week of Sept 26) offer 2 handfuls of hay morning and afternoon. During weekend, give 3 handfuls in the morning. Continue this plan.
  - c. We may need more hay.
4. For Thumper- recheck 1 week or earlier. This was a good catch by [REDACTED] Hopefully Thumper is just having a very heavy shed.

Please let me know if this plan works for you.

Thanks,

Leslie

**From:** Dunn, Jenelle N.

**Sent:** Monday, September 12, 2016 8:54 AM

**To:** [REDACTED]

**Cc:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>; [REDACTED]

[REDACTED]

**Subject:** AHR# 16132

Number: 16132

Date Found: 09/12/16

Time Found: 8:00am

Found by: [REDACTED]  
Room: A486B  
Investigator: [REDACTED]  
LAPR#: 09-03-002  
Species/Strain: Rabbit/NZW  
Sex: male  
DOB: 02/05/08  
Date Received: 09/06/09  
Animal ID/Cage: 24  
Dull coat/unthrifty  
Losing a lot of fur

[REDACTED]  
L.L. Brooks Enterprises  
Contractor for U.S.E.P.A  
[REDACTED]



Jarrell, Leslie

Trixie

From: Jarrell, Leslie  
Sent: Tuesday, July 19, 2016 11:19 AM  
To: [REDACTED]  
Cc: [REDACTED] Graff, Jaimie; [REDACTED]

Subject: RE: Rabbit Exams (6)- part 2

Follow Up Flag: Follow up  
Flag Status: Flagged

[REDACTED] and I examined rabbits on 5/2/16 (Leo, Baby Girl and Leo) and 5/24/16 (Dixie, Oopsie and Daisy). I did not pursue oral exams.

- Rabbit 105 Trixie DOB 5/7/14. Did well for exam. BCS 2.5 on a scale of 1 to 5, where 2.5 is ideal. Weight 4.86 kg. Weight in 2015 was 4.68 kg.
- Rabbit 102, Leo, DOB 5/7/14, Did well for exam. BCS 2.5 on scale of 1 to 5, where 2.5 is ideal. Weight 4.36 kg. Weight in 2015 was 4.20 kg.
- Rabbit 30, Baby Girl, DOB 2/24/08. Did very well for exam. Weight 4.18 kg. Monitor.
  - Weight 2/1/13= 4.46 kg
  - Weight 3/25/15= 4.1 kg
  - So she has not lost weight since last year. However, will need to keep an eye on her.
- Rabbit 106, Dixie, DOB 5/7/14. Did well for exam. Weight 4.04 kg. Weight last year was 3.94 kg.
- Rabbit 107, Oopsie, Male intact rabbit, DOB 9/2/15, Weight 3.84 kg. Did well for exam. Slight mats on hind feet, watch for issues.
- Rabbit 108, Daisy, Female intact rabbit, DOB 9/2/15. Weight 3.30 kg. Very nervous, unable to get thorough exam due to temperament. Continue with socialization.

I would like to post the rabbits' weight history in the suite or room. [REDACTED] has made a chart.

Thanks,  
Leslie

From: Jarrell, Leslie  
Sent: Friday, March 25, 2016 12:44 PM  
To: [REDACTED]  
Cc: [REDACTED]  
<[REDACTED]> Graff, Jaimie <Graff.Jaimie@epa.gov>  
Subject: Rabbit Exams (4) and UV light - part 1

[REDACTED] and I examined 4 of the rabbits on 3/9/16. The rabbits did pretty well with exams, but I wasn't able to do oral exams on them. Hopefully the younger ones will eventually tolerate it. I will follow up with the other 6 rabbits' exams over the next month.

As a caveat- although dental exams using otoscope are useful at finding gross pathology of the teeth, current standards for dental care in rabbits involve use of skull x-rays. Earlier dental changes can be found on x-rays than by visual exam, and intervention can be started to delay clinical consequences due to pain and weight loss.

- Rabbit #24 Thumper DOB 2/25/08. Did well for exam. BCS 1.75 on a scale of 1 to 5, where 2.5 is ideal. This is a little lower than last year. Al increased the pellets for Thumper last year, but Thumper is at 3.42 kg. He was

around 3.44 kg last year this time. However at least he has not lost any significant weight. I would like to see if we can get his body condition up a little. This makes me concerned about his teeth. He is 8 years old.

- Rabbit #25 Peter DOB 2/25/08. Did well with exam but didn't attempt to examine teeth. He had a number of mats which we have started to clip. I am thinking that he may not be able to groom as well as previously. Peter's weight was 3.96 kg. About a year ago, he was at 4.38 kg. This is significant weight loss. His body condition score is around 1.75 out of 5, where 2.5 is ideal and 1 is emaciated. His is 8 years old now.
  - We have access to CBC/ Chemistry panels for evaluating how his kidneys/ liver etc are doing, which I may like to pursue this year if that is OK with you. Most likely, I would think his teeth are an issue, but we don't have radiographs to evaluate him.
  - We will need to keep a close eye on his weight this year. Also keep working on his coat.
- Rabbit #101 Tex. DOB 5/17/14. Did well with exam. Had some mats, which we were able to clip. I'm not sure why he isn't grooming as well as expected. Plan to work on getting him to tolerate oral exam. And possibly more clipping. Weight 4.46 kg, around 1 year ago was 4.14 kg. Good weight.
- Rabbit #104 Jasper- DOB 5/17/14. Very nervous. Still did not tolerate exam very well. Feet well furred. Weight 4.68 kg, around 1 year ago was 4.14 kg. Good weight. Work on tolerating more handling.

Note; Last year I emailed about research on vitamin D in rabbits. This is the abstract from 2014 off PUBMED. Lab rabbits in particular don't get UV light exposure, and these rabbits are older than most NZW are usually kept. I would like to look into possibilities for checking their vitamin D levels over time, and potentially getting some kind of full spectrum lighting. Low levels of vitamin D have had implications in rabbits for; bone issues such as arthritis, and also dental issues. We have seen some level of these issues in a number of rabbits.

Thanks,  
Leslie

Am J Vet Res. 2014 Apr;75(4):380-4. doi: 10.2460/ajvr.75.4.380.

## **Effects of ultraviolet radiation produced from artificial lights on serum 25-hydroxyvitamin D concentration in captive domestic rabbits (*Oryctolagus cuniculi*).**

Emerson JA<sup>1</sup>, Whittington JK, Allender MC, Mitchell MA.

### **Author information**

- <sup>1</sup>Department of Veterinary Clinical Sciences, College of Veterinary Medicine, University of Illinois, Urbana, IL 61802.

### **Abstract**

#### **OBJECTIVE:**

To determine the effects of UVB radiation produced by artificial lights on serum 25-hydroxyvitamin D concentrations in domestic rabbits (*Oryctolagus cuniculi*).

#### **ANIMALS:**

9 juvenile domestic rabbits.

## **PROCEDURES:**

After an acclimation period, rabbits were anesthetized with isoflurane, and an initial blood sample was collected for determination of serum 25-hydroxyvitamin D concentration. Rabbits were randomly assigned to receive 12-hour exposure to UVB radiation produced by 2 compact fluorescent lights daily ( $n = 5$ ) or no UVB supplementation (4) commencing on day 1. The UVB radiation emitted into the cage was measured at 9 points approximately 34 cm from the surface of the UVB light sources (representing the position of the rabbits in the cage) after 10 hours of exposure on days 1, 8, and 14. On day 14, another blood sample was collected from anesthetized rabbits for determination of serum 25-hydroxyvitamin D concentration.

## **RESULTS:**

The UVB radiation level was 8.3 to 58.1  $\mu\text{W}/\text{cm}^2$  for the exposed rabbits and consistently  $< 0.001 \mu\text{W}/\text{cm}^2$  for the control rabbits. Mean  $\pm$  SD serum 25-hydroxyvitamin D concentrations in the rabbits that were or were not provided supplemental UVB radiation for 14 days differed significantly ( $66.4 \pm 14.3 \text{ nmol/L}$  and  $31.7 \pm 9.9 \text{ nmol/L}$ , respectively).

## **CONCLUSIONS AND CLINICAL RELEVANCE:**

Exposure to UVB radiation produced by artificial light significantly increased serum 25-hydroxyvitamin D concentration in juvenile rabbits. Because vitamin D is an essential hormone in vertebrates, these findings suggested that the provision of supplemental UVB radiation to captive rabbits may be important.



# SMALL MAMM/ PATIENT EXAMINATIC REPORT CARD

<b>1. Coat/Fur &amp; Skin</b> <u>Appears normal</u> Dull/Dry Scaly Infection Matted Itchy Tumors Shedding Hair Loss	<b>TESTS NEEDED:</b> <input type="checkbox"/> Annual Blood Work <input type="checkbox"/> Urinalysis <input type="checkbox"/> Fecal Examination <input type="checkbox"/> Spay / Neuter <input type="checkbox"/> Microchip <input type="checkbox"/> Skin Scraping <input type="checkbox"/> Fungal Culture <input type="checkbox"/> Ear Cytology	<b>RECOMMENDATIONS:</b> Cage Change: _____ Bedding Change: Change Type _____ Diet Change: Please see handout _____	Tech Initials: _____ Temp: _____ Weight: <u>4.86</u>
<b>2. Eyes</b> <u>Appears Normal</u> Inflamed Eyelid Deformities Cataract: L R Discharge Infection Ulcer: L R	<b>Appetite:</b> <u>normal</u> / increased / decreased <b>Water Intake:</b> <u>normal</u> / increased / decreased <b>Coughing:</b> <u>No</u> / Yes, Frequency: _____ <b>Sneezing:</b> <u>No</u> / Yes, Frequency: _____ <b>Urination:</b> <u>normal</u> / increased/decreased <b>Attitude:</b> <u>normal</u> / abnormal <b>Feces:</b> <u>normal</u> / abnormal		
<b>3. Ears</b> <u>Appears Normal</u> Dirty Tumor: L R Excessive Hair Inflamed: L R Mites Infected Painful	<b>Presented For:</b> <u>regular exam</u>		
<b>4. Nose</b> <u>Appears Normal</u> Other: _____ Nasal Discharge	<b>Historical Issues/ Medications:</b> <u>none</u>		
<b>5. Mouth, Teeth, Gums</b> <u>Appears Normal</u> Tumor Buildup Overgrown Incisors Overgrown Molars Overgrown roots Broken Teeth Tumors Inflamed Lips Periodontal Disease Abscessed	<b>Current Diet:</b> <u>pellets, hay, haystacks + fresh veg</u>		
<b>6. Legs &amp; Paws</b> <u>Appears Normal</u> Nail Problems Other: _____ Joint Problems Lameness	<b>Examination:</b> <u>BAR H. MM pink + moist CRT 1 sec</u> <u>HR 180 RR stiff, BCS mid</u> <u>Abd- mid no masses palpated</u> <u>LN - mid feet firm. oral exam</u> <u>NE</u> <u>James</u>		
<b>7. Heart</b> <u>Appears Normal</u> Slow Murmur ISO 2d Fast Irregular	<b>8. Lungs</b> <u>Appears Normal</u> Abnormal Sound Rapid Respiration Coughing Congestion Dyspnea BCS 2 5/5		
<b>9. Abdomen</b> <u>Appears Normal</u> Enlarged Organs Fluid Abnormal Mass Tense/Painful Swollen	<b>10. Gastrointestinal System</b> <u>Appears Normal</u> Stasis/ Impaction Anorexia Abnormal Feces Parasites		
<b>11. Urogenital System</b> <u>Appears Normal</u> Mammary Tumors Abnormal Testicles Abnormal Urination Genital Discharge	<b>12. Weight</b> <u>OK</u> Normal Heavy By: _____ Obese Thin By: _____		
<b>Doctor:</b> <u>James</u> Doctor's name, DVM <b>Need:</b> <u>Ref</u> <b>In:</b> <u>6-12 months</u> <b>Days</b>			
<b>DIAGNOSIS OR PROBLEMS</b>	<b>PROGNOSIS</b>	<b>DIFFERENTIAL DIAGNOSIS</b>	<b>PLAN</b>
<b>Today's Date:</b> <u>5/2/16</u> <b>Pet's Name:</b> <u>Trixie</u>	<b>Chart #:</b> <u>105</u> <b>Last Name:</b> _____	<b>Species/ Breed:</b> <u>NZW Rabbit</u> <b>Color:</b> <u>white</u>	<b>DOB:</b> <u>5/7/14</u> <b>Sex:</b> <u>FI</u>



Jarrell, Leslie

Trixie

**From:** Jarrell, Leslie  
**Sent:** Thursday, February 25, 2016 2:08 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie  
**Subject:** RE: Rabbit exams

Thank you!  
Leslie

**From:** [REDACTED]  
**Sent:** Thursday, February 25, 2016 2:08 PM  
**To:** Jarrell, Leslie <Jarrell.Leslie@epa.gov>; [REDACTED]  
**Cc:** [REDACTED]  
[REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>  
**Subject:** RE: Rabbit exams

That's fine

**From:** Jarrell, Leslie  
**Sent:** Thursday, February 25, 2016 2:07 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
[REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>  
**Subject:** Rabbit exams

Hi [REDACTED]  
It's that time of year for rabbit exams. I've tentatively scheduled March 8 at 1- 2 pm, and March 9 from 9:30- 10:30 AM, and March 16 from 9:30- 10:30 AM for their annual exams. Would that work ok for your schedules?

Thanks,  
Leslie

[illegible][illegible]